

034904

7/15

French Limited Project Natural Attenuation Progress Report

2nd Quarter, 1996

June, 1996

Submitted to: U.S. Environmental Protection Agency - Region 6
Dallas, TX

Prepared by: FLTG, Inc.
Crosby, TX



198354

034907

French Limited Project Natural Attenuation Progress Report

2nd Quarter, 1996

June, 1996

Submitted to: U.S. Environmental Protection Agency - Region 6
Dallas, TX

Prepared by: FLTG, Inc.
Crosby, TX

TABLE OF CONTENTS

1.0	Introduction	1
2.0	Progress Monitoring	1
3.0	Water Level	1
4.0	Analytical Results	1
5.0	Analytical QA/QC Summary	1
6.0	Data Evaluation	9
6.1	Groundwater Concentrations of Organics	9
6.2	Results > MCL's	9
6.3	Residual Nitrate	10
7.0	Natural Attenuation Modeling Update	11
7.1	April, 1996, Sampling Data Run	11
7.2	October, 1995, Starting Conditions Run	11
7.3	Modeling Update Results	11
8.0	Conclusions/Recommendations	12

Tables

Table 12.1	3
Table 1	6
Table 7-1	13

Figures

Figure 12.1	4
Figure 12.2	5
Figure 1	7
Figure 2	8

Appendices

Appendix A - Analytical Data for Groundwater Samples
Appendix B - Demonstration

**French Limited Project
Natural Attenuation Progress Report**

2nd Quarter, 1996

1.0 Introduction

The shallow alluvial zone aquifer in the vicinity of the French site has been affected by chemicals which migrated from the main waste lagoon. Bioremediation of the main waste lagoon and a subsurface containment wall have eliminated the source of chemicals to the shallow alluvial zone aquifer. Active remediation of the shallow zone aquifer has reduced the chemicals in the aquifer to the levels where natural attenuation will achieve the aquifer clean-up criteria in 10 years or less.

2.0 Progress Monitoring

Based on December, 1995, analytical results from INT-130 located 25' south of the office building, it was decided to replace INT-130 which was plugged and abandoned with INT-130R (screened in the same zone as INT-130) and with INT-130RS (screened in the top ten feet of the INT zone).

Section 12.0 of the Site Closure Plan describes the monitoring and modeling program to measure the natural attenuation progress. Table 12.1 lists the wells that are sampled, measured, and tested for the progress monitoring program; the water level is measured in each well; NO₃, NH₄, PO₄, TOC, acetone, 1,2-DCA, vinyl chloride, benzene, and toluene are analyzed on most wells; As, Pb, and Cr are analyzed on 10 wells. Figures 12.1 and 12.2 show the locations of the progress monitoring wells. Table 12.1 also lists the QAQC samples that are to be collected and analyzed as part of each periodic progress monitoring event.

3.0 Water Level

The water level measurements taken on April 8-12, 1996, are in Table 1. There were no anomalies in the water level measurements, which were consistent with the shut-down of active aquifer remediation on December 15, 1995. Figures 1 and 2 present the water levels and potentiometric surfaces in the S1 and INT zones, respectively. In general, the groundwater gradient is from outside the main migration control wall to inside the wall; the gradient is toward the south pond due to the lack of rainfall and surface evaporation from the pond; the natural gradient toward the southwest in the INT zone has been re-established.

4.0 Analytical Results

The analytical data for the groundwater samples is in Appendix A.

5.0 Analytical QA/QC Summary

The samples were analyzed according to the analytical slate outlined in the long-term monitoring plan/closure report. The following analytes were reported in the analytical summary:

Vinyl chloride
Benzene
1,2-Dichlorethane
Toluene
Acetone
Total organic carbon
Arsenic
Chromium
Lead
Nitrate - N
Ammonia - N
Orthophosphate - P
Potassium

QC Issues

The field blanks associated with these samples contained trihalomethanes. This is probably from using de-ionized water that is not "lab-grade." We should get several gallons of de-ionized water from our contract laboratory for our next sampling event.

Sample S1-135 matrix spike and matrix spike duplicate had relative percent difference RPD (precision) outside QC limits for vinyl chloride. Matrix spike accuracy was within control limits. Matrix effect is suspected.

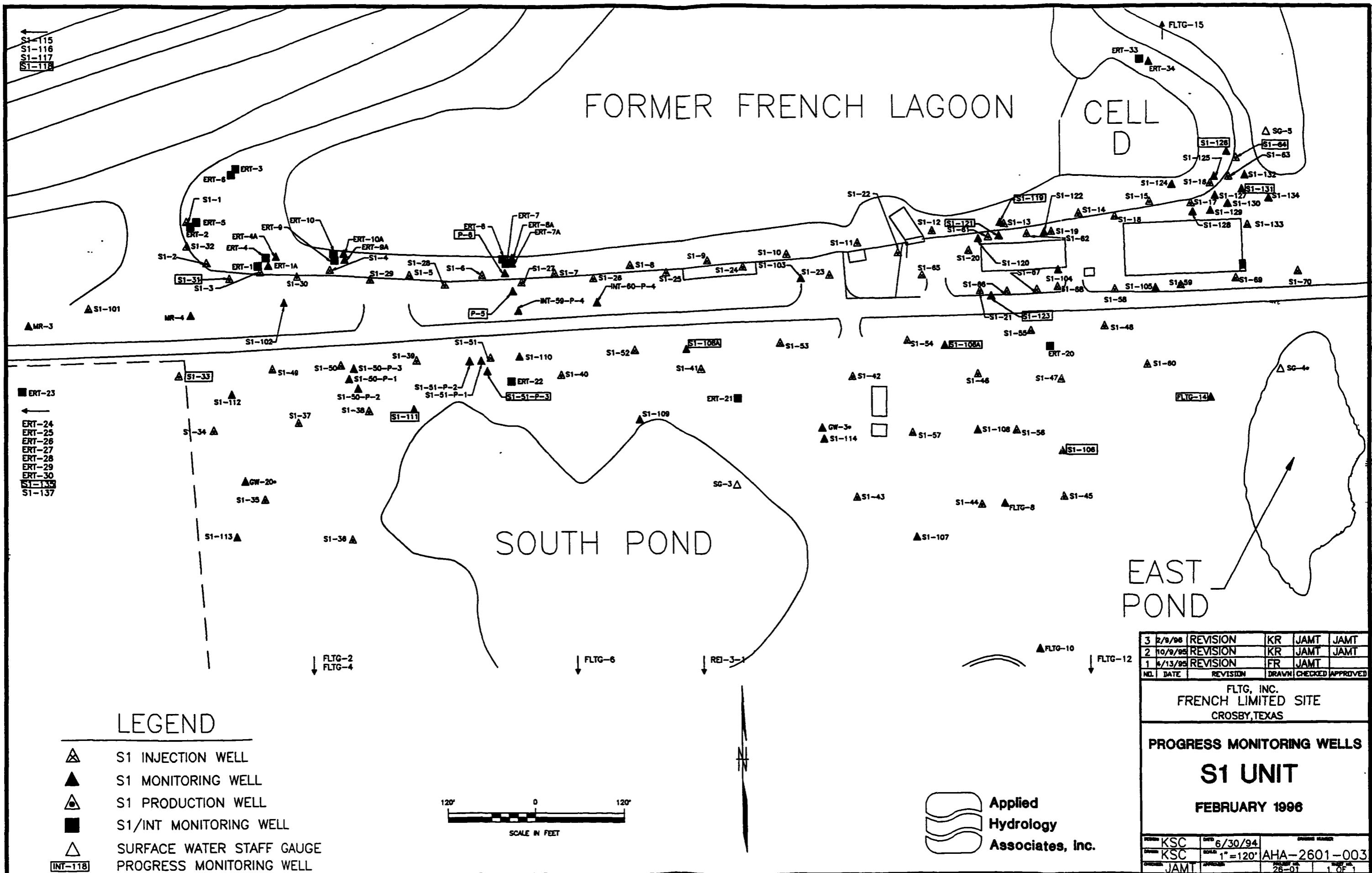
There were no other QC issues in this analytical data.

Table 12.1
Progress Monitoring Wells
(1996-2005)

Well No.	Location	Water Level	Analytical Suite										
			NO ₃	NH ₄	PO ₄	TOC	Acetone	1,2-DCA	Vinyl Chloride	Benzene	Toluene	As	Pb
INT-101	200' SW of W end	X	X		X	X			X	X	X	X	X
INT-233	40' S of W end	X	X		X	X			X	X	X		
INT-134	W edge of landfill	X	X		X	X			X	X	X		
INT-135	W edge of landfill	X	X		X	X			X	X	X	X	X
INT-144	Ruendeau property	X	X		X	X			X	X	X	X	X
INT-22	NE corner of landfill	X	X		X	X			X	X	X		
INT-214	80'E of NE corner landfill	X	X		X	X			X	X	X		
INT-217	200'W of S. pond	X	X		X	X			X	X	X		
INT-60-P-3	N of GPR, 200'W of MCC-1	X	X		X	X			X	X	X		
INT-59-P-2	N of GPR, 300'W of MCC-1	X										X	X
S1-111	NW corner of S. Pond	X										X	X
INT-127	S of INT-11 well	X	X		X	X			X	X	X		
INT-120	W of INT-11 well	X	X		X	X			X	X	X		
INT-123	E of INT-11 well	X	X		X	X			X	X	X		
INT-106	60'S of GPR; 100'E of gate	X	X		X	X			X	X	X		
INT-130R	25' S of office building	X	X		X	X			X	X	X		
INT-130RS	25' S of office building	X	X		X	X			X	X	X		
INT-26	S of GPR, 450'W of gate	X	X		X	X			X	X	X		
INT-108	S of GPR, 180'W of gate	X	X		X	X			X	X	X		
FLTG-13	W of east pond	X	X		X	X			X	X	X		
S1-135	W edge, landfill	X	X		X	X			X	X	X	X	X
S1-121	Bat. well & office building	X	X		X	X			X	X			
S1-123	30'S of office building	X	X		X	X			X	X	X		
S1-108	250'S of office building	X	X		X	X			X	X	X		
FLTG-14	W of east pond	X	X		X	X			X	X	X		
S1-31	20'S of wall, W end	X	X		X	X			X	X	X	X	X
S1-33	NE corner of landfill	X	X		X	X			X	X	X	X	X
S1-118	Hwy. 90, far W end	X	X		X	X			X	X	X	X	X
INT-118	Hwy. 90, far W end	X	X		X	X			X	X	X	X	X
S1-131	30'SE of E end wall	X	X		X	X			X	X	X		
S1-108A R	S of GPR, 100'E of gate	X	X		X	X			X	X	X		
S1-108A	S of GPR, 180'W of gate	X	X		X	X			X	X	X		
S1-61-P-3	S of GPR, 450'W of gate	X	X		X	X			X	X	X		
S1-118	Inside wall, office bldg.	X											
S1-126	Inside wall, E end	X											
S1-84	Outside wall, E end	X											
P6	Inside wall, 150'E of W gate	X											
P6	Outside wall, 160'E of W gate	X											

- Notes:
1. Include:
 - Three field duplicates
 - Two trip blanks
 - Two field blanks
 - Two laboratory blanks
 2. Field measurement of the following to be taken for all wells to be sampled:
 - Temperature
 - pH
 - EC
 - DO
 3. All progress monitoring wells will be analyzed for the full priority pollutant list in 1996, 2000, and 2005.

031912



LEGEND

-  S1 INJECTION WELL
 -  S1 MONITORING WELL
 -  S1 PRODUCTION WELL
 -  S1/INT MONITORING WELL
 -  SURFACE WATER STAFF GAUGE
 -  PROGRESS MONITORING WELL

IT-118



The logo consists of a stylized graphic on the left and text on the right. The graphic features three horizontal, rounded, wavy lines of increasing height from bottom to top, enclosed in a thin black border. To the right of the graphic, the company name is written in a bold, black, sans-serif font, with each word on a new line.

3	2/9/96	REVISION	KR	JAMT	JAMT
2	10/9/95	REVISION	KR	JAMT	JAMT
1	4/13/95	REVISION	FR	JAMT	
NO.	DATE	REVISION	DRAWN	CHECKED	APPROVED
FLTG, INC. FRENCH LIMITED SITE CROSBY, TEXAS					
PROGRESS MONITORING WELLS					
S1 UNIT					
FEBRUARY 1996					
KSC		DATED	6/30/94	DRAWING NUMBER	
KSC		SCALE	1" = 120'	AHA-2601-003	
JAMT		APPROVED		26-01	1 OF 1

FIGURE 12.1

034913

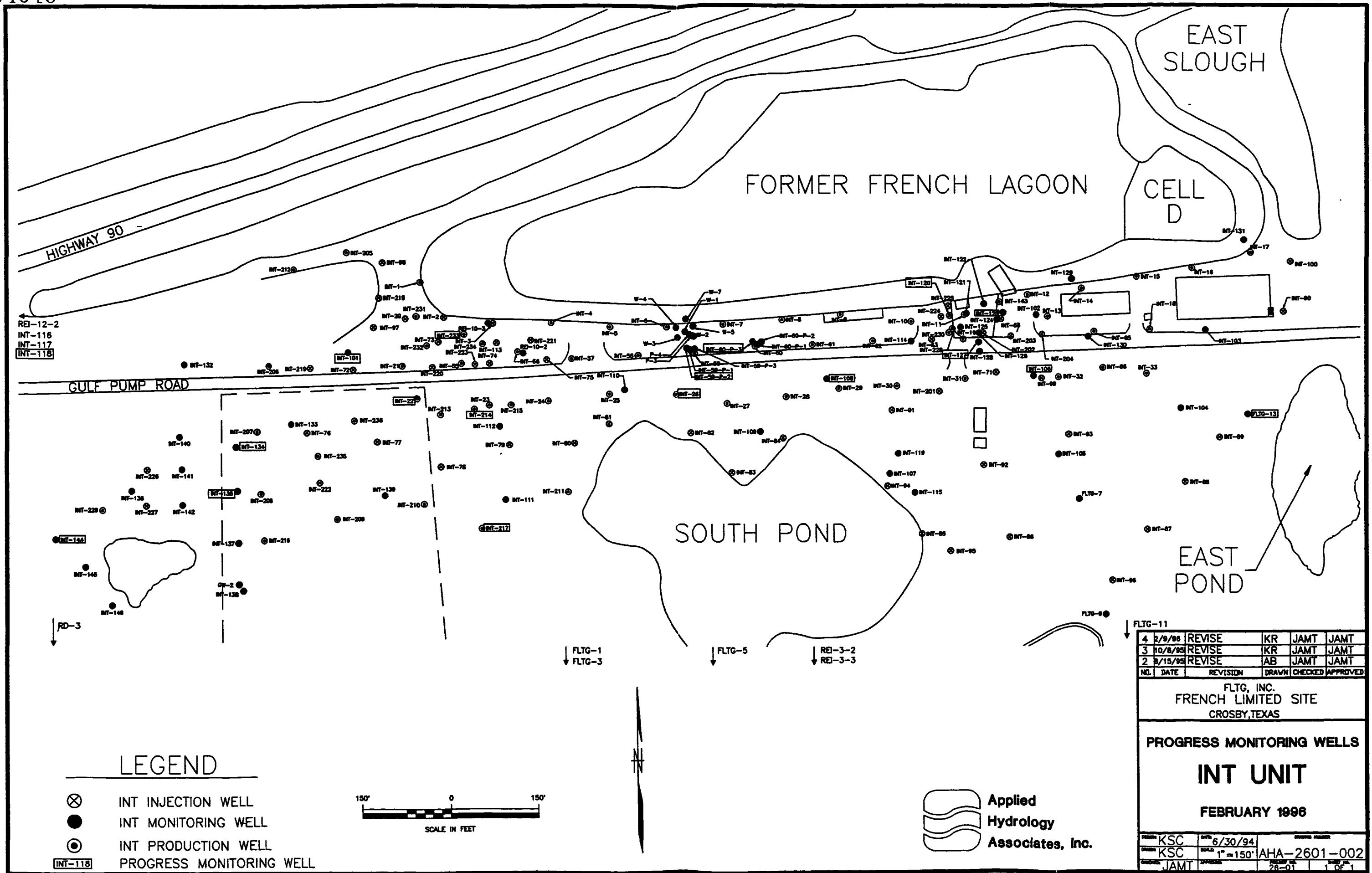
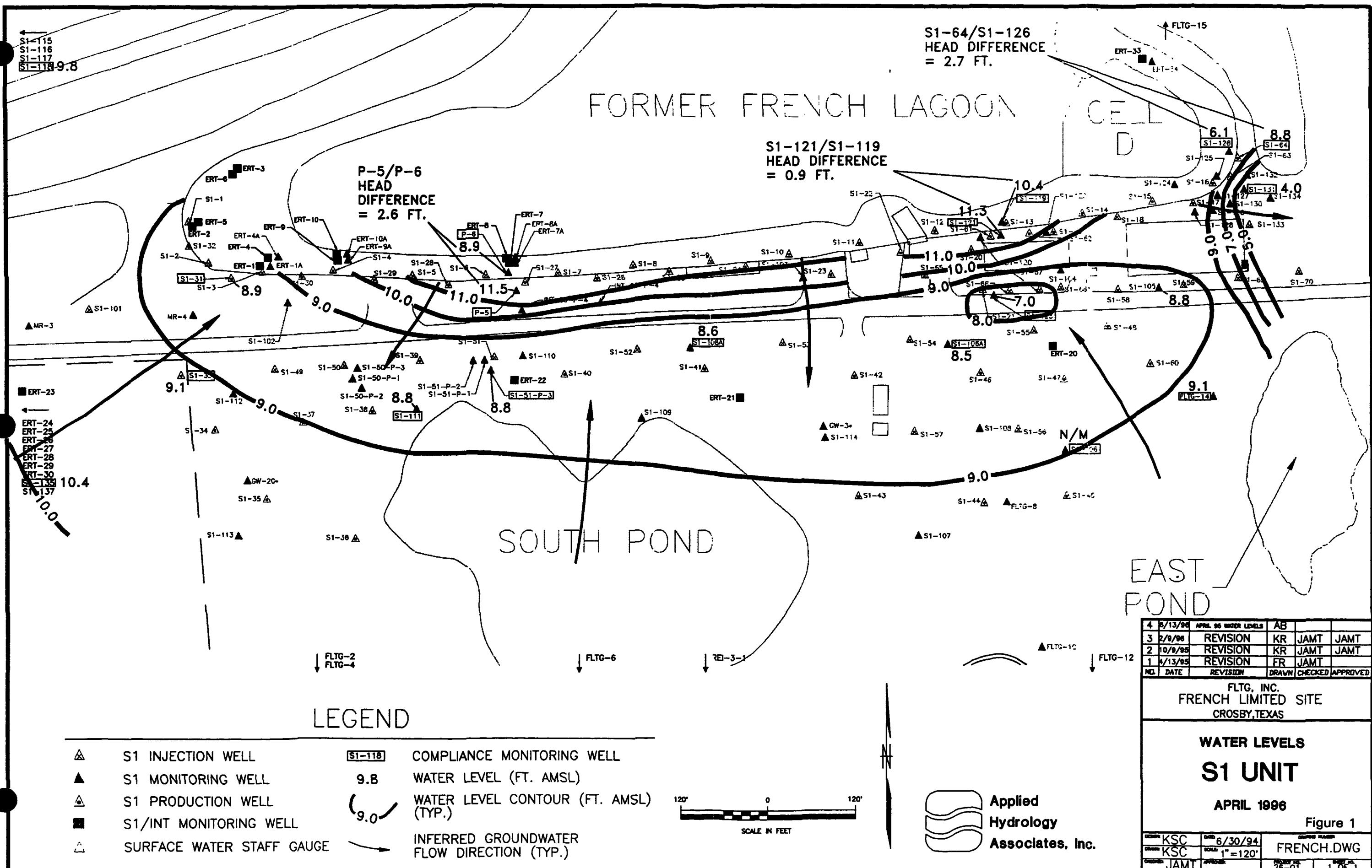


FIGURE 12.2

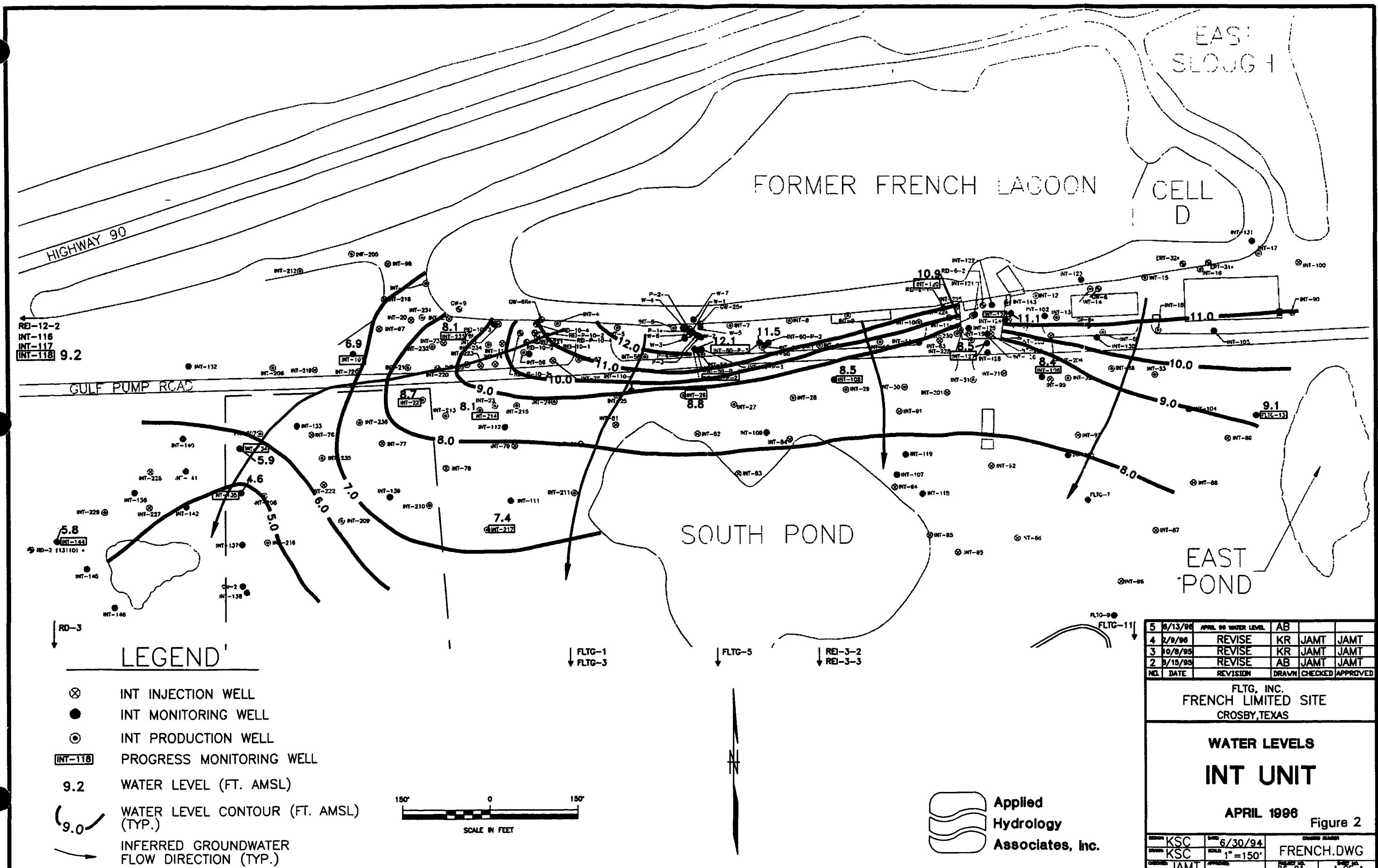
Table 1
French Limited Groundwater Levels, April 8-12, 1996

Well	Measured, 4/96	Based on last survey		Based on 6/12/96 survey		Change in TOC
	DTW (ft)	TOC (ft-MSL)	WL (ft-MSL)	TOC (ft-MSL)	WL (ft-MSL)	TOC (ft-MSL)
FLTG-13	2.98	12.05	9.07	not found	use old TOC level	not available
FLTG-14	2.45	11.55	9.10	not found	use old TOC level	not available
INT-22	5.60	12.44	6.84	14.27	8.67	1.83
INT-26	3.58	11.93	8.35	12.33	8.75	0.4
INT-59-P2	2.80	11.68	8.88	14.93	12.13	3.25
INT-60-P3	3.20	12.02	8.82	14.68	11.48	2.66
INT-101	6.20	13.15	6.95	13.12	6.92	-0.03
INT-106	3.25	11.77	8.52	11.62	8.37	-0.15
INT-108	4.98	13.54	8.56	13.55	8.57	0.01
INT-118	10.33	19.53	9.20	could not open	use old TOC level	not available
INT-120	6.70	15.13	8.43	17.81	10.91	2.48
INT-123	6.90	15.1	8.20	18.04	11.14	2.94
INT-127	2.70	11.18	8.48	11.18	8.48	0
INT-130R	not measured	new	new	11.24	not requested	not available
INT-130RS	not measured	new	new	11.63	not requested	not available
INT-134	8.88	16.79	7.91	14.81	5.93	-1.98
INT-135	13.30	17.99	4.69	17.93	4.63	-0.06
INT-144	13.00	new	new	18.83	5.83	not available
INT-214	3.80	new	new	11.93	8.13	not available
INT-217	3.70	new	new	11.13	7.43	not available
INT-233	7.30	new	new	15.38	8.08	not available
P-5	6.40	15.11	8.71	17.85	11.45	2.74
P-6	9.60	15.59	5.99	18.45	8.85	2.86
S1-31	7.55	13.12	5.57	16.46	8.91	3.34
S1-33	3.68	11.56	7.88	12.78	9.10	1.22
S1-51-P3	3.47	12.2	8.73	12.22	8.75	0.02
S1-64	5.92	uncertain	uncertain	14.67	8.75	not available
S1-105	3.12	12.25	9.13	11.91	8.79	-0.34
S1-106A	2.70	new	new	11.18	8.48	not available
S1-108A	5.62	new	new	14.26	8.64	not available
S1-111	3.60	12.39	8.79	not found	use old TOC level	not available
S1-118	9.23	18.99	9.76	unable to open	use old TOC level	not available
S1-119	8.10	15.33	7.23	18.49	10.39	3.16
S1-121	6.52	15.04	8.52	17.85	11.33	2.81
S1-123	3.80	10.7	6.90	10.77	6.97	0.07
S1-126	8.68	15.18	6.50	14.75	6.07	-0.43
S1-131	3.66	12.4	8.74	7.7	4.04	-4.7
S1-135	7.62	18.02	10.40	18.02	10.40	0

034915



034916



034917

Natural Attenuation Progress Report
2nd Quarter, 1996

French Limited Project
FLTG, Inc.

6.0 Data Evaluation

Results were evaluated as follows:

1. Note concentrations < MCL or ND
2. Note concentrations > MCL, and trends, if any. Note if DL> MCL.
3. Note residual nitrate.

6.1 Groundwater Concentrations of Organics

Groundwater concentrations of organics were reported < MCL or ND in the following wells:

FLTG-13, FLTG-14, INT-22, INT-108, INT-118, INT-135, INT-144, INT-214, S1-31, S1-33, S1-51-P-3, S1-105, S1-106A, S1-108A, S1-118, S1-135

6.2 Results > MCL's

Groundwater samples from the following wells yielded concentrations in excess of MCL's:

Well	Constituents and Concentrations (mg/L)	Trends	Comments/ Recommended Action
FLTG-14	benzene 7	up from 1/96	
INT-026	benzene 98	down from 1/96	
INT-60-P-3	benzene 25	up from 1/96	metals not analyzed
INT-101	arsenic 60 benzene 36	both down from 1/96	
INT-106	1,2-DCA 63 benzene 6	both up from 1/96	
INT-120	1,2-DCA 21	1,2-DCA and VC down markedly from 1/96; VC DL> MCL	note 12.8 ppm drop in NO ₃ -N and 13.4 pm drop in DO from 1/96
INT-123	1,2-DCA 210	up from 1/96; VC DL> MCL	
INT-127	benzene 160	up from 1/96	TREND IS MAYBE UP.
INT-130R	1,2-DCA 500	no historical; Bz and VC DL's> MCL	provide INT-130 historical; request lower detection limits in future
INT-130RS	1,2-DCA 1, 800 vinyl chloride 180	no historical; benzene DL> MCL	provide INT-130 historical; request lower detection limits in future

0 14.1
" " detected

IP.

←

←

Well	Constituents and Concentrations (mg/L)	Trends	Comments/ Recommended Action
INT-134	1,2-DCA 67 benzene 27 vinyl chloride 19	1,2-DCA steady benzene down vinyl chloride markedly up-down	
INT-217	benzene 51 vinyl chloride 8	benzene up vinyl chloride down	
INT-233	benzene 370	benzene declining VC DL > MCL	
S1-121	1,2-DCA 24 vinyl chloride 66	1,2-DCA down vinyl chloride up	
S1-123	1,2-DCA 680	1,2-DCA markedly up VC DL > MCL	
S1-131	benzene 21	up from 1/96	

6.3 Residual Nitrate

Residual nitrate exceeded the drinking water standard of 10 mg/L-N at the following wells:

Well	Nitrate in 1/96 (mg/L-N)	Nitrate in 4/96 (mg/L-N)	Trend
INT-60-P-3	41.6	112.0	up
INT-118	0.2	371.0	up*
INT-120	63.1	23.3	down
INT-123	25.6	23.2	down
INT-127	4.0	47.9	up
INT-130R	new well	30.6	not available
INT-130RS	new well	23.2	not available
S1-033	131.0	288.0	up
S1-106A	92.3	16.6	down
S1-131	8.6	306.0	up

Nitrate concentrations exceeding the MCL are expected to decline with continuing denitrifying reactions related to intrinsic bioremediation. Areas showing increases evidently reflect migration/dispersion of high-nitrate groundwater into formerly low-nitrate areas.

* possibly incorrect; INT-118 was not due to be dosed.

7.0 Natural Attenuation Modeling Update

With the April, 1996, data from 20 wells within the modeled areas, the model was re-run in two ways. The first method runs the model for 9.5 years with the starting conditions based solely upon the April, 1996, sampling data. This package labeled as April, 1996 - Initial and April, 1996 - 9.5 Years is in Appendix B. This 9.5 year run uses the same input parameters as the demonstration runs in the Natural Attenuation Modeling Report from December, 1995. The second method re-runs the demonstration runs from the Natural Attenuation Modeling Report for 6 months with the original October, 1995, starting conditions and uses the 21 wells as calibration points. This package labeled as Demonstration - Initial and Demonstration - 6 Months is in Appendix B.

7.1 April, 1996, Sampling Data Run

The first method, using April, 1996, sampling data, shows non-compliance south of Gulf Pump Road in 9.5 years for several areas and several constituents. However, our initial dissolved oxygen (DO) plus nitrate concentrations for April, 1996, are based solely on measured numbers at the progress monitoring wells. The demonstration runs in the Natural Attenuation Modeling Report included higher concentrations of DO and nitrate that existed at injection wells. The April, 1996, modeling run could be re-run with higher DO plus nitrate values, which may exist at the injection wells but have not been measured.

7.2 October, 1995, Starting Conditions Run

The second method is a true "calibration" run. Since this run uses the October, 1995, starting conditions, a much more extensive initial data set is used. Using this method, the progress monitoring wells are used as calibration points. Generally, most of the progress monitoring wells show measured concentrations that are less than model predicted concentrations, (see Table 7-1). This indicates that the model assumptions are conservative and that intrinsic bioremediation may be occurring at a faster rate than predicted, which will only be confirmed after a longer period of monitoring. This method does indicate several areas where the initial concentration contours from October, 1995, could be adjusted. These adjustments are due to contouring interpretation "error" (i.e., contouring around INT-207 has produced artificially high concentrations of 1,2-DCA and vinyl chloride at INT-134) or because well sampling data was not available in October, 1995 (i.e., INT-123 should have higher initial 1,2-DCA concentrations). In addition, DO plus nitrate concentrations decrease much more quickly in the model than observed at the progress monitoring wells. This indicates that the limiting half-life for biodegradation, which limits oxygen consumption, may need to be increased.

7.3 Modeling Update Results

The assumptions used in the December, 1995, Natural Attenuation Modeling report remain valid and conservative. In general, the measured concentrations of the target chemicals at the progress monitoring wells are less than the concentrations predicted by the model for the first 6 months of natural attenuation.

8.0 Conclusions/Recommendations

The rate and direction of groundwater migration were consistent with physical conditions and with the natural attenuation modeling assumptions. The public health and the environment are being adequately protected. The chemical concentrations in the progress monitoring wells suggest that significant intrinsic bioremediation of organic chemicals is occurring. The natural attenuation modeling update continued to predict compliance by December 31, 2005. S1-106 was inadvertently plugged and abandoned, and S1-105 has been sampled instead of S1-106; S1-106 will be replaced by S1-106R, and S1-105 will be plugged and abandoned. The second quarterly monitoring data and the natural attenuation modeling update do not indicate the need to revise the site closure plan.

034921

Table 7-1

S1- East Area: Measured Versus Modeled Concentrations
 Demonstration Run - 6 Months
 April, 1996

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO + NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
S1-121	5.00	3.45	24.00	198.91	66.00	21.99	7.30	5.22	1.70	0.02
S1-123	0.00	1.38	680.00	195.95	0.00	1.61	2.40	11.21	2.70	0.00
S1-106A	0.00	0.04	0.00	0.00	0.00	0.00	0.00	3.50	54.10	0.00
FLTG-14	7.00	0.00	0.00	0.00	0.00	0.00	3.00	4.24	1.70	0.00
S1-131	21.00	4.50	0.00	1.38	0.00	0.00	10.40	17.22	766.40	0.00
S1-105	0.00	0.02	0.00	1.33	0.00	0.00	2.10	11.92	3.25	0.01

INT Wall Area: Measured Versus Modeled Concentrations
 Demonstration Run - 6 Months
 April, 1996

TDT RISHT

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO + NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-120	5.00	4.53	21.00	652.29	0.00	13.07	2.20	3.56	58.25	0.48
INT-123	0.00	0.00	210.00	0.00	0.00	0.00	2.10	0.00	64.40	101.89
INT-127	160.00	65.30	0.00	0.73	0.00	0.13	35.00	57.99	120.55	0.08
INT-106	6.00	3.61	63.00	10.56	0.00	5.60	11.10	29.87	1.40	0.01

INT Central Area: Measured Versus Modeled Concentrations
 Demonstration Run - 6 Months
 April, 1996

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO + NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-60-P-3	25.00	33.28	0.00	0.00	0.00	0.00	1.10	12.28	295.00	0.00
INT-026	98.00	6.28	0.00	0.00	0.00	0.00	23.70	1.44	1.20	0.00
INT-120	5.00	2.71	21.00	487.18	0.00	8.93	2.20	1.55	58.25	0.01
INT-108	0.00	1.02	0.00	0.00	0.00	0.00	2.80	2.68	4.50	0.00

INT West Area: Measured Versus Modeled Concentrations
 Demonstration Run - 6 Months
 April, 1996

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO + NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-134	27.00	104.60	67.00	192.90	19.00	261.30	10.80	1.18	2.45	0.65
INT-135	0.00	11.97	0.00	35.55	0.00	92.95	7.20	1.27	1.00	0.06
INT-217	51.00	17.62	0.00	21.27	8.00	56.07	28.40	25.93	0.90	0.01
INT-214	0.00	38.83	0.00	2.42	0.00	0.00	1.50	19.29	5.15	0.01
INT-022	0.00	13.39	0.00	5.82	0.00	8.70	2.10	12.21	4.20	0.01
INT-233	370.00	1319.12	0.00	0.28	0.00	4937.89	132.00	1035.05	0.70	1.10
INT-101	36.00	186.21	0.00	0.00	0.00	0.00	14.70	32.11	1.40	0.01

Techrite Copy Services

214-748-3000
PROJECT SPECS

Firm name K. KOS
Address _____
Ordered by Chris
Client _____
EPC 15
Tape # _____

Number of Copies 1x
Box _____ of _____ Part _____ of _____

Copy & Bind as Original

COPYING

- ALL 8 1/2 x 11
- ALL 8 1/2 x 14
- Size for Size
- ALL 11 x 17
- Color Copies 1-up 2-up

- 2 sided for 2 sided
- Convert 1 sided to 2 sided
- Convert 2 sided to 1 sided S C L
- Copy only tagged Originals
- Copy only clipped Originals

DO WE COPY?	YES	NO	COLOR
Covers	—	—	—
Folders	—	—	—
Folder Tabs	—	—	—
Post It Notes	—	—	—
Index Tabs	—	—	—
Redwelds	—	—	—
Standard Language	—	—	—
Duplicate	—	—	—

Oversize Documents

(Maps, Surveys, Drawings)

- Copy Same Size Fold Roll
- Reduce Copies To: _____
- Computer Forms:
- Same Size
- Reduce to 8 1/2 x 14
- Reduce to 8 1/2 x 11

FINISHING

- Rebind Originals
- Restaple Originals
- Staple Copies as Originals
- Reclip Originals
- Clip Copies as Originals
- Do not Staple Copies
- Do not Clip copies
- Do not Staple or Clip Originals
- Copies Slip Sheeted CFC Color
- Chipboard & Rubberband

- 3-Hole Drill
- 2-Hole Drill
- GBC Bind Top Side
- Velo Bind Top Side
- Acco Bind 8 1/2 x 11 8 1/2 x 14
- Deposition Binders
- Manila Folders
- Redropes
- Bind Unbound Originals
- Insert Tabs

Special Instructions Copy only tagged sections only

Order written by Pay Beeper # _____ Home # _____

BOOKMARK

Appendix A

034923

Natural Attenuation Progress Report
2nd Quarter, 1996

French Limited Project
FLTG, Inc.

Appendix A

Analytical Data for Groundwater Samples

U34974

French Limited Project

FLTG-013

<u>Compound</u>	<u>Criteria</u>	<u>Units</u>	<u>12 - 92</u>	<u>12 - 93</u>	<u>12 - 94</u>	<u>01 - 96</u>	<u>04 - 96</u>
Dissolved Oxygen		ppm			2.6	1.8	1.8
pH		pH un			7.8	7.4	7.4
Specific Conductivity		umhos			800.0	300.0	350.0
Temperature		deg C			21.0	21.0	21.0
Total Organic Carbon		ppm			8.1 <	5.0	4.4
Ammonia-N		mg/L			< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L			< 2.0	< 0.4	< 0.2
Orthophosphate-P		mg/L			< 2.0 <	< 0.1	< 0.1
Potassium		mg/L			0.9	1.1	1.1
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	< 5.0	< 0.8	< 0.8	< 0.8	< 0.8
Acetone		3500 ug/L	< 10.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	3.0 <	0.3 <	0.3 <	0.3 <	0.3
Toluene		1000 ug/L	3.0 <	0.5 <	0.5 <	0.5 <	0.5
Vinyl chloride		2 ug/L	< 10.0	< 1.2	< 1.2	< 1.2	< 1.2

031925
French Limited Project

FLTG-014

Compound	Criteria	Units	12 - 92	12 - 93	12 - 94	01 - 96	04 - 96
Dissolved Oxygen		ppm			2.4	1.4	1.7
pH		pH un			7.8	7.2	7.0
Specific Conductivity		umhos			1000.0	220.0	300.0
Temperature		deg C			21.0	19.0	22.0
Total Organic Carbon		ppm			8.2 <	3.0	5.9
Ammonia-N		mg/L			< 0.1	0.5	0.7
Nitrate-N		mg/L			< 2.0 <	0.2 <	0.2
Orthophosphate-P		mg/L			< 2.0 <	0.1 <	0.1
Potassium		mg/L			1.8	1.3	1.6
Arsenic	50	ug/L					
Chromium	100	ug/L					
Lead	15	ug/L					
1,2-Dichloroethane	5	ug/L	< 5.0	< 0.8	< 0.8	< 0.8 <	0.8
Acetone	3500	ug/L	< 10.0	< 6.0	< 6.0	< 6.0 <	6.0
Benzene	5	ug/L	2.0 <	0.3 <	0.3 <	0.3	7.0
Toluene	1000	ug/L	2.0 <	0.5 <	0.5 <	0.5	3.0
Vinyl chloride	2	ug/L	< 10.0	< 1.2	< 1.2	< 1.2 <	1.2

034926

French Limited Project

INT-022

Compound	Criteria	Units	04 - 95	10 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		4.2	1.8	1.6
pH		pH un		7.1	6.9	6.9
Specific Conductivity		umhos		850.0	550.0	600.0
Temperature		deg C		24.0	23.0	21.0
Total Organic Carbon		ppm	160.0	25.0	< 0.4	4.2
Ammonia-N		mg/L		0.8	0.8	0.4
Nitrate-N		mg/L		16.7	2.0	0.2
Orthophosphate-P		mg/L		< 0.2	2.6 <	0.1
Potassium		mg/L		83.8	31.7	33.1
Arsenic	50	ug/L			21.0	
Chromium	100	ug/L			< 10.0	
Lead	15	ug/L			< 5.0	
1,2-Dichloroethane	5	ug/L		9.0 <	0.8 <	0.8
Acetone	3500	ug/L		< 6.0	< 6.0 <	6.0
Benzene	5	ug/L		9.0	44.0 <	0.3
Toluene	1000	ug/L		< 0.5	3.0 <	0.5
Vinyl chloride	2	ug/L		19.0	26.0 <	1.2

031927

French Limited Project

INT-026

Compound	Criteria	Units	04 - 95	01 - 96	04 - 96	
Dissolved Oxygen		ppm		2.5	1.2	
pH		pH un		6.4	7.0	
Specific Conductivity		umhos		800.0	550.0	
Temperature		deg C		22.0	21.0	
Total Organic Carbon		ppm	107.0	<	3.0	47.3
Ammonia-N		mg/L		1.2	1.6	
Nitrate-N		mg/L		4.0	<	0.2
Orthophosphate-P		mg/L		586.0	37.4	
Potassium		mg/L		926.0	82.4	
Arsenic	50	ug/L				
Chromium	100	ug/L				
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	<	0.8	<	0.8
Acetone	3500	ug/L	<	6.0	<	6.0
Benzene	5	ug/L		180.0		98.0
Toluene	1000	ug/L		7.0	<	0.5
Vinyl chloride	2	ug/L	<	1.2	<	1.2

031928

French Limited Project

INT-059-P-2

Compound	Criteria	Units	12 - 92	12 - 93	12 - 94	01 - 96	04 - 96
Dissolved Oxygen		ppm				0.7	1.3
pH		pH un				7.0	7.0
Total Conductivity		umhos				230.0	300.0
Temperature		deg C				23.0	21.0
Total Organic Carbon		ppm			18.4 <	5.0	
Ammonia-N		mg/L				0.4	
Nitrate-N		mg/L			< 2.0		
Orthophosphate-P		mg/L				2.6	
Potassium		mg/L					
Arsenic	50	ug/L				47.3	68.0
Chromium	100	ug/L			< 0.7 <	10.0 <	10.0
Lead	15	ug/L				< 5.0 <	5.0
1,2-Dichloroethane	5	ug/L	< 5000.0	12.0 <	0.8		
Acetone	3500	ug/L	100000.0	9713.0 <	6.0		
Benzene	5	ug/L	< 5000.0	443.0		21.0	
Toluene	1000	ug/L	< 5000.0	97.0 <	0.5		
Vinyl chloride	2	ug/L	< 10000.0	24.0 <	1.2		

034929
French Limited Project

INT-060-P-3

Compound	Criteria	Units	01 - 96	04 - 96		
Dissolved Oxygen		ppm	15.0	15.0		
pH		pH un	6.8	7.0		
Specific Conductivity		umhos	500.0	850.0		
Temperature		deg C	22.0	21.0		
Total Organic Carbon		ppm	< 3.0	2.2		
Ammonia-N		mg/L	< 0.1	0.1		
Nitrate-N		mg/L	41.6	112.0		
Orthophosphate-P		mg/L	0.2 <	0.1		
Potassium		mg/L	37.9	118.0		
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	< 0.8	< 0.8		
Acetone		3500 ug/L	< 6.0	< 6.0		
Benzene		5 ug/L	< 0.3	25.0		
Toluene		1000 ug/L	< 0.5	11.0		
Vinyl chloride		2 ug/L	< 1.2	< 1.2		

034930

French Limited Project

INT-101

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	0.3	1.7	0.5	1.0	1.4
pH		pH un	6.5	7.1	6.9	7.0	6.8
Specific Conductivity		umhos	700.0	400.0	500.0	500.0	470.0
Temperature		deg C	23.0	24.0	23.0	23.0	21.0
Total Organic Carbon		ppm	86.0	99.0	84.0 <	3.0	29.4
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2
Orthophosphate-P		mg/L	< 0.1	< 0.2	< 0.1	< 0.1	< 0.5
Potassium		mg/L	1.3	0.7	1.4	0.7	0.7
Arsenic	50	ug/L			115.0	96.0	60.0
Chromium	100	ug/L			< 10.0	< 10.0	< 10.0
Lead	15	ug/L			< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5	ug/L	< 2.0	< 0.8	< 2.6	< 0.8	< 0.8
Acetone	3500	ug/L	< 15.0	150.0	< 19.8	< 6.0	< 6.0
Benzene	5	ug/L	400.0	300.0	218.0	120.0	36.0
Toluene	1000	ug/L	< 1.3	< 0.5	< 1.7	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 3.0	< 1.2	< 4.0	< 1.2	< 1.2

034931

French Limited Project

INT-106

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	0.3	0.3	0.4	0.4	1.4
pH		pH un	6.6	6.5	7.0	6.9	7.1
Specific Conductivity		umhos	950.0	600.0	550.0	550.0	600.0
Temperature		deg C	23.0	23.0	23.0	23.0	21.0
Total Organic Carbon		ppm	51.0	102.0	30.0 <	1.2	22.2
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	0.7	0.8	13.4	3.0 <	0.2
Orthophosphate-P		mg/L	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1
Potassium		mg/L	3.0	2.8	3.1	2.7	2.5
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	110.0	52.0	43.0	22.0	63.0
Acetone		3500 ug/L	< 6.0	43.0 <	6.0 <	6.0 <	6.0
Benzene		5 ug/L	22.0	9.0 <	0.3 <	0.3	6.0
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	23.0	20.0	9.0 <	1.2 <	1.2

034932

French Limited Project

INT-108

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	1.5	1.2	3.8	0.6	1.5
pH		pH un	6.5	6.4	6.8	6.8	7.2
Specific Conductivity		umhos	480.0	400.0	410.0	390.0	450.0
Temperature		deg C	25.0	23.0	23.0	23.0	21.0
Total Organic Carbon		ppm	13.0	5.7	7.0 <	0.4	5.5
Ammonia-N		mg/L	< 0.1	0.3	1.0	0.2 <	0.1
Nitrate-N		mg/L	0.5	2.7 <	0.2	4.0	1.2
Orthophosphate-P		mg/L	1.9	0.4	0.3	0.8	0.9
Potassium		mg/L	44.1	41.7	9.8	41.4	39.3
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	25.0 <	0.8 <	0.8 <	0.8 <	0.8
Acetone		3500 ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	3.0 <	0.3 <	0.3 <	0.3 <	0.3
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

034933

French Limited Project

INT-118

Compound	Criteria	Units	12 - 93	12 - 94	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		2.0	1.3	1.1	4.6
pH		pH un		8.1	8.2	8.3	8.6
Specific Conductivity		umhos		280.0	210.0	245.0	400.0
Temperature		deg C		240.0	24.0	24.0	22.0
Total Organic Carbon		ppm	4.2	5.0	2.4	<	5.0 < 2.0
Ammonia-N		mg/L		< 0.1	< 0.1	< 0.1	0.1
Nitrate-N		mg/L		< 2.0		0.2	371.0
Orthophosphate-P		mg/L		< 2.0	< 0.1	< 0.1	0.1
Potassium		mg/L		2.6		1.2	3.5
Arsenic	50	ug/L		< 3.9	< 10.0	< 10.0	10.0
Chromium	100	ug/L		5.9	< 10.0	< 10.0	10.0
Lead	15	ug/L		< 2.5	< 5.0	< 5.0	5.0
1,2-Dichloroethane	5	ug/L	4.0	< 0.8	< 0.8	< 0.8	0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	1.2

034934
French Limited Project

INT-120

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	15.0	15.0	3.8	15.0	1.6
pH		pH un		7.1	7.3	7.2	7.1
Specific Conductivity		umhos		900.0	1300.0	900.0	750.0
Temperature		deg C	23.0	25.0	23.0	24.0	22.0
Total Organic Carbon		ppm	32.0	12.0	18.0 <	150.0	4.4
Ammonia-N		mg/L		0.2	0.1	0.9	0.9
Nitrate-N		mg/L		32.2	329.0	36.1	23.3
Orthophosphate-P		mg/L		< 0.2	37.4	470.0	21.6
Potassium		mg/L		63.3	94.1	834.0	122.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L		1200.0	1400.0	8400.0	21.0
Acetone		3500 ug/L		57.0 <	120.0 <	300.0 <	15.0
Benzene		5 ug/L		8.0 <	6.0 <	15.0	5.0
Toluene		1000 ug/L		3.0 <	10.0 <	25.0 <	1.3
Vinyl chloride		2 ug/L		26.0 <	24.0	260.0 <	3.0

034935
French Limited Project

INT-123

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	15.0	15.0	15.0	15.0	6.4
pH		pH un	9.1	9.4	7.2	8.6	8.2
Specific Conductivity		umhos	700.0	500.0	495.0	500.0	500.0
Temperature		deg C	26.0	24.0	23.0	24.0	22.0
Total Organic Carbon		ppm	6.0	3.0	8.0 <	3.0	4.2
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	40.5	37.4	119.0	25.6	23.2
Orthophosphate-P		mg/L	< 0.1	< 0.2	4.1	0.7	0.4
Potassium		mg/L	75.0	61.8	68.4	73.6	58.9
Arsenic	50	ug/L					
Chromium	100	ug/L					
Lead	15	ug/L					
1,2-Dichloroethane	5	ug/L	610.0	220.0	580.0	120.0	210.0
Acetone	3500	ug/L	38.0	36.0 <	30.0	20.0 <	12.0
Benzene	5	ug/L	12.0	6.0 <	1.5 <	0.3 <	0.6
Toluene	1000	ug/L	3.0 <	0.5 <	2.5 <	0.5 <	1.0
Vinyl chloride	2	ug/L	300.0	82.0	77.0	15.0 <	2.4

031936
French Limited Project

INT-127

Compound	Criteria	Units	08 - 95	10 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	3.2	0.5	1.7	2.0	0.8
pH		pH un	6.5	6.5	6.8	6.3	6.7
Specific Conductivity		umhos	1190.0	750.0	700.0	750.0	850.0
Temperature		deg C	24.0	24.0	23.0	24.0	22.0
Total Organic Carbon		ppm	124.0	144.0	90.0	77.7	70.0
Ammonia-N		mg/L	<	0.1	0.1	0.1	0.7
Nitrate-N		mg/L		5.0	3.3	4.0	47.9
Orthophosphate-P		mg/L	<	0.1	< 0.2	< 0.1	< 0.1
Potassium		mg/L		8.6	6.2	11.1	6.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	<	0.8	< 0.8	< 0.8	< 0.8
Acetone		3500 ug/L		740.0	+ 320.0	84.0	120.0
Benzene		5 ug/L		220.0	120.0	140.0	150.0
Toluene		1000 ug/L		63.0	39.0	36.0	37.0
Vinyl chloride		2 ug/L		20.0	< 1.2	< 1.2	< 1.2

034937**French Limited Project****INT-130R**

Compound	Criteria	Units	04 - 96			
Dissolved Oxygen		ppm	1.7			
Water pH		pH un	7.4			
Total Specific Conductivity		umhos	850.0			
Temperature		deg C	26.0			
Total Organic Carbon		ppm	12.7			
Ammonia-N		mg/L	< 0.1			
Nitrate-N		mg/L	30.6			
Orthophosphate-P		mg/L	< 0.1			
Potassium		mg/L	1.5			
Arsenic		50 ug/L				
Chromium		100 ug/L	-			
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	500.0			
Acetone		3500 ug/L	< 1000.0			
		5 ug/L	< 500.0			
		1000 ug/L	< 500.0			
		2 ug/L	< 1000.0			

+ = Compound concentration more than linear calibration range of instrument
 < = Compound not detected at listed detection limit

No data indicates sample not collected

Compound	Criteria	Units	04 - 96			
Dissolved Oxygen		ppm	2.1			
pH		pH un	7.2			
Specific Conductivity		umhos	900.0			
Temperature		deg C	25.0			
Total Organic Carbon		ppm	17.4			
Ammonia-N		mg/L	< 0.1			
Nitrate-N		mg/L	23.2			
Orthophosphate-P		mg/L	< 0.1			
Potassium		mg/L	1.8			
Arsenic	50	ug/L				
Chromium	100	ug/L				
Lead	15	ug/L				
1,2-Dichloroethane		5 ug/L	1800.0			
Acetone	3500	ug/L	< 200.0			
Benzene	5	ug/L	< 100.0			
Toluene	1000	ug/L	< 100.0			
Vinyl chloride	2	ug/L	180.0			

+ = Compound concentration more than linear calibration range of instrument
< = Compound not detected at listed detection limit

No data indicates sample not collected

034939

French Limited Project

INT-134

<u>Compound</u>	<u>Criteria</u>	<u>Units</u>	<u>12 - 93</u>	<u>12 - 94</u>	<u>12 - 95</u>	<u>01 - 96</u>	<u>04 - 96</u>
Dissolved Oxygen		ppm	4.2	1.8	14.6	0.7	1.2
pH		pH un		7.8	6.8	7.4	7.4
Specific Conductivity		umhos		550.0	370.0	500.0	525.0
Temperature		deg C		20.2	24.0	22.0	22.0
Total Organic Carbon		ppm			8.0 <	1.0	21.6
Ammonia-N		mg/L		< 0.1	< 0.1	0.3	0.7
Nitrate-N		mg/L		< 2.0	21.3	1.8	0.5
Orthophosphate-P		mg/L		< 2.0	0.2	18.0	8.7
Potassium		mg/L		1.4	1.4	43.1	26.4
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L		74.0	78.0	68.0	67.0
Acetone		3500 ug/L		< 15.0	< 15.0	< 12.0	< 6.0
Benzene		5 ug/L		< 0.8	26.0	34.0	27.0
Toluene		1000 ug/L		< 1.3	< 1.3	< 1.0	< 0.5
Vinyl chloride		2 ug/L		200.0	198.0	190.0	19.0

034940

French Limited Project

INT-135

Compound	Criteria	Units	12 - 94	08 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	6.8	1.4	3.8	1.0	1.0
pH		pH un	7.2	6.8	7.0	7.0	6.9
Specific Conductivity		umhos	650.0	400.0	325.0	440.0	500.0
Temperature		deg C	23.0	23.0	23.0	23.0	23.0
Total Organic Carbon		ppm	11.0	22.0	10.0 <	3.0	14.3
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	< 2.0	< 0.5	< 2.2	< 0.2	< 0.2
Orthophosphate-P		mg/L	< 2.0	< 0.1	< 1.0	< 0.1	< 0.1
Potassium		mg/L	2.0	1.2	1.2	1.2	1.2
Arsenic	50	ug/L	< 3.9		< 10.0		20.0
Chromium	100	ug/L	7.5		< 10.0	< 10.0	
Lead	15	ug/L	2.6		< 5.0	< 5.0	
1,2-Dichloroethane	5	ug/L	66.0	29.0	15.0 <	0.8	
Acetone	3500	ug/L	< 12.0	< 12.0	< 6.0	< 6.0	
Benzene	5	ug/L	6.0	< 0.6	< 0.3	< 0.3	
Toluene	1000	ug/L	< 1.0	< 1.0	< 0.5	< 0.5	
Vinyl chloride	2	ug/L	300.0	146.0	66.0 <	1.2	

034941

French Limited Project

INT-144

Compound	Criteria	Units	12 - 94	08 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	3.3	1.0	0.7	0.7	2.4
pH		pH un	8.7	8.2	8.8	8.6	8.8
Specific Conductivity		umhos	420.0	350.0	300.0	310.0	325.0
Temperature		deg C	20.0	22.0	21.0	23.0	21.0
Total Organic Carbon		ppm	7.3	12.0	1.5 <	3.0 <	2.0
Ammonia-N		mg/L	0.2	< 0.1	0.1	0.2 <	0.1
Nitrate-N		mg/L	< 20.0	< 0.1	0.2 <	0.2 <	0.2
Orthophosphate-P		mg/L	< 2.0	< 0.1	0.2 <	0.1 <	0.1
Potassium		mg/L	2.6	1.2	1.2	0.9	1.0
Arsenic	50	ug/L				< 10.0	20.0
Chromium	100	ug/L				< 10.0 <	10.0
Lead	15	ug/L				< 5.0 <	5.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8 <	0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0 <	6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3 <	0.3
Toluene	1000	ug/L	< 3.0	< 0.5	< 0.5	< 0.5 <	0.5
Vinyl chloride	2	ug/L	< 9.0	< 1.2	< 3.0	< 1.2 <	1.2

034942

French Limited Project

INT-214

Compound	Criteria	Units	02 - 95	01 - 96	04 - 96	
Dissolved Oxygen		ppm		1.0	1.4	
pH		pH un		6.9	7.5	
Specific Conductivity		umhos		700.0	575.0	
Temperature		deg C		23.0	21.0	
Total Organic Carbon		ppm	<	0.7	3.0	
Ammonia-N		mg/L		0.2	<	0.1
Nitrate-N		mg/L		5.5		1.5
Orthophosphate-P		mg/L		60.6		6.0
Potassium		mg/L		188.0		88.9
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	7.0	<	0.8	< 0.8
Acetone		3500 ug/L	<	6.0	<	6.0
Benzene		5 ug/L	19.0	<	0.3	< 0.3
Toluene		1000 ug/L	<	0.5	<	0.5
Vinyl chloride		2 ug/L	61.0	<	1.2	< 1.2

034943

French Limited Project

INT-217

Compound	Criteria	Units	04 - 95	10 - 95	11 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		4.6	0.4	0.4	0.9
pH		pH un		6.7	6.5	6.9	6.7
Specific Conductivity		umhos		1150.0	750.0	1000.0	805.0
Temperature		deg C		24.0	23.0	23.0	21.0
Total Organic Carbon		ppm	75.0	58.0	74.0 <	2.5	56.8
Ammonia-N		mg/L		0.6	0.1	1.1	0.4
Nitrate-N		mg/L		< 0.2	0.8	0.5 <	0.2
Orthophosphate-P		mg/L		< 0.2	0.2	206.0	5.9
Potassium		mg/L		1.5	1.3	385.0	19.6
Arsenic	50	ug/L					
Chromium	100	ug/L					
Lead	15	ug/L					
1,2-Dichloroethane	5	ug/L		30.0	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L		< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L		24.0	14.0	22.0	51.0
Toluene	1000	ug/L		< 0.5	< 0.5	< 0.5	12.0
Vinyl chloride	2	ug/L		63.0	41.0	51.0	8.0

034944

French Limited Project

INT-233

Compound	Criteria	Units	09 - 95	11 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	1.2	0.3		0.7
pH		pH un	6.1	6.4	6.8	6.8
Specific Conductivity		umhos	3000.0	4000.0	750.0	1200.0
Temperature		deg C	25.0	21.0	24.0	22.0
Total Organic Carbon		ppm	3130.0	2850.0	< 1800.0	264.0
Ammonia-N		mg/L	< 0.1	0.4	2.6	1.2
Nitrate-N		mg/L	0.3	0.3	< 0.2 <	0.2
Orthophosphate-P		mg/L	< 0.2	< 0.2	< 0.1	5.5
Potassium		mg/L	4.7	2.8	16.2	10.5
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	< 400.0	< 80.0	< 160.0	< 2.7
Acetone		3500 ug/L	76000.0	7600.0	27000.0	< 19.8
Benzene		5 ug/L	2300.0	1400.0	740.0	370.0
Toluene		1000 ug/L	< 250.0	< 50.0	< 100.0	140.0
Vinyl chloride		2 ug/L	8500.0	3000.0	< 240.0	< 4.0

034945

French Limited Project

S1-031

Compound	Criteria	Units	09 - 94	08 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		15.0	0.6	1.5
pH		pH un		6.9	7.2	7.5
Specific Conductivity		umhos		700.0	600.0	300.0
Temperature		deg C		24.0	23.0	21.0
Total Organic Carbon		ppm		15.0 <	9.0	4.1
Ammonia-N		mg/L			0.2	0.6
Nitrate-N		mg/L			26.5	2.8
Orthophosphate-P		mg/L			5.5	1.7
Potassium		mg/L			144.0	93.8
Arsenic	50	ug/L			< 10.0	< 10.0
Chromium	100	ug/L			13.0 <	10.0
Lead	15	ug/L			5.0 <	5.0
1,2-Dichloroethane	5	ug/L	< 0.8		< 0.8 <	0.8
Acetone	3500	ug/L	< 6.0		< 6.0 <	6.0
Benzene	5	ug/L	< 0.3		< 0.3 <	0.3
Toluene	1000	ug/L	< 0.5		< 0.5 <	0.5
Vinyl chloride	2	ug/L	< 1.2		< 1.2 <	1.2

034946

French Limited Project

S1-033

Compound	Criteria	Units	03 - 94	01 - 96	04 - 96	
Dissolved Oxygen		ppm		0.4	1.6	
pH		pH un		6.5	7.2	
Specific Conductivity		umhos		495.0	450.0	
Temperature		deg C		23.0	20.0	
Total Organic Carbon		ppm	<	3.0	3.5	
Ammonia-N		mg/L	<	0.1	<	0.1
Nitrate-N		mg/L		131.0	288.0	
Orthophosphate-P		mg/L		1.2	0.6	
Potassium		mg/L		68.1	59.5	
Arsenic	50	ug/L	<	10.0	<	10.0
Chromium	100	ug/L	<	10.0	<	10.0
Lead	15	ug/L	<	5.0	<	5.0
1,2-Dichloroethane	5	ug/L	<	0.8	<	0.8
Acetone	3500	ug/L	<	6.0	<	6.0
Benzene	5	ug/L	<	0.3	<	0.3
Toluene	1000	ug/L	<	0.5	<	0.5
Vinyl chloride	2	ug/L	<	1.2	<	1.2

034947

French Limited Project

S1-051-P-3

Compound	Criteria	Units	01 - 96	04 - 96		
Dissolved Oxygen		ppm	0.6	1.8		
pH		pH un	6.9	6.9		
Specific Conductivity		umhos	500.0	450.0		
Temperature		deg C	21.0	20.0		
Total Organic Carbon		ppm	< 3.0	11.3		
Ammonia-N		mg/L	0.8	0.9		
Nitrate-N		mg/L	7.4	4.2		
Orthophosphate-P		mg/L	< 0.1	< 0.1		
Potassium		mg/L	37.9	54.8		
Arsenic	50	ug/L				
Chromium	100	ug/L				
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8		
Acetone	3500	ug/L	< 6.0	< 6.0		
Benzene	5	ug/L	< 0.3	< 0.3		
Toluene	1000	ug/L	< 0.5	< 0.5		
Vinyl chloride	2	ug/L	< 1.2	< 1.2		

034948

French Limited Project

S1-105

Compound	Criteria	Units	12 - 94	08 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	1.4	10.6	0.2	0.4	1.5
pH		pH un	7.2	7.0	7.0	7.0	7.3
Specific Conductivity		umhos	800.0	470.0	400.0	470.0	450.0
Temperature		deg C	25.5	24.0	26.0	24.0	22.0
Total Organic Carbon		ppm		13.0	6.0 <	3.0	4.1
Ammonia-N		mg/L	6.1	< 0.1	1.3	2.5	2.5
Nitrate-N		mg/L	10.5	5.9	20.5	2.6	0.7
Orthophosphate-P		mg/L	3.7	1.2	4.7	1.7	1.4
Potassium		mg/L		15.9	22.3	17.2	15.9
Arsenic	50	ug/L	48.1		< 10.0		
Chromium	100	ug/L	< 0.7		< 10.0		
Lead	15	ug/L			6.0		
1,2-Dichloroethane	5	ug/L	< 2.0	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 15.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	7.0 <	0.3 <	0.3 <	0.3 <	0.3
Toluene	1000	ug/L	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 3.0	< 1.2	< 1.2	< 1.2	< 1.2

Compound	Criteria	Units	11 - 95	01 - 96	04 - 96	
Dissolved Oxygen		ppm	15.0	15.0	12.6	
pH		pH un	6.7	6.7	7.5	
Specific Conductivity		umhos	470.0	450.0	400.0	
Temperature		deg C	25.0	24.0	21.0	
Total Organic Carbon		ppm	3.0 <	3.0 <	2.0	
Ammonia-N		mg/L	< 0.1	< 0.1	0.2	
Nitrate-N		mg/L	21.7	92.3	16.6	
Orthophosphate-P		mg/L	< 0.2	0.7	0.6	
Potassium		mg/L	35.0	47.0	43.1	
Arsenic	50	ug/L				
Chromium	100	ug/L		-		
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	

Compound	Criteria	Units	11 - 95	01 - 96	04 - 96	
Dissolved Oxygen		ppm	0.5	2.0	1.8	
pH		pH un	6.0	6.1	7.1	
Specific Conductivity		umhos	425.0	470.0	400.0	
Temperature		deg C	25.0	22.0	20.0	
Total Organic Carbon		ppm	8.0	51.6	3.8	
Ammonia-N		mg/L	0.8	0.2	<	0.1
Nitrate-N		mg/L	5.8	51.6		4.2
Orthophosphate-P		mg/L	<	0.2	0.3	0.1
Potassium		mg/L	17.9	28.2		34.2
Arsenic	50	ug/L				
Chromium	100	ug/L				
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	10.0	<	0.8	<
Acetone	3500	ug/L	<	6.0	<	6.0
Benzene	5	ug/L	<	0.3	<	0.3
Toluene	1000	ug/L	<	0.5	<	0.5
Vinyl chloride	2	ug/L	<	1.2	<	1.2

034951
French Limited Project

S1-111

Compound	Criteria	Units	12 - 93	12 - 94	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		15.0	15.0	15.0	15.0
pH		pH un		9.3	7.8	7.7	7.2
Specific Conductivity		umhos		800.0	525.0	900.0	600.0
Temperature		deg C		24.0	21.0	22.0	21.0
Total Organic Carbon		ppm	16.0	3.4	6.7	9.0	
Ammonia-N		mg/L	0.9	<	0.1	<	0.1
Nitrate-N		mg/L	<	0.1	<	231.0	
Orthophosphate-P		mg/L	0.3	<	2.0	18.5	
Potassium		mg/L	3.6		155.0	126.0	
Arsenic	50	ug/L		26.3		<	10.0
Chromium	100	ug/L		132.0		12.0	<
Lead	15	ug/L		98.4		9.0	<
1,2-Dichloroethane	5	ug/L	<	5.0	<	0.8	<
Acetone	3500	ug/L	<	10.0	<	6.0	<
Benzene	5	ug/L		16.0	<	0.3	<
Toluene	1000	ug/L	<	5.0	<	0.5	<
Vinyl chloride	2	ug/L	<	10.0	<	1.2	<

031952
French Limited Project

S1-118

Compound	Criteria	Units	12 - 93	12 - 94	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		3.4	2.2	1.6	1.6
pH		pH un		6.6	8.0	6.7	6.7
Specific Conductivity		umhos		308.0	470.0	200.0	500.0
Temperature		deg C		24.0	21.0	24.0	21.0
Total Organic Carbon		ppm	19.0	9.4	9.0	< 0.5	6.2
Ammonia-N		mg/L		0.1	<	0.1	0.1
Nitrate-N		mg/L	<	2.0	<	0.2 <	0.2
Orthophosphate-P		mg/L	<	2.0	<	0.1 <	0.1
Potassium		mg/L		3.6		2.7	1.7
Arsenic	50	ug/L		5.6	<	10.0 <	10.0
Chromium	100	ug/L		5.3	<	10.0 <	10.0
Lead	15	ug/L		6.3	<	5.0 <	5.0
1,2-Dichloroethane	5	ug/L	7.0 <	0.8 <	0.8 <	0.8 <	0.8
Acetone	3500	ug/L	< 6.0	22.0 <	6.0 <	6.0 <	6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

034953

French Limited Project

S1-121

Compound	Criteria	Units	12 - 94	09 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	3.1	15.0	4.4	10.2	1.7
pH		pH un	778.0	6.5	6.7	6.8	6.8
Specific Conductivity		umhos	900.0	650.0	700.0	750.0	750.0
Temperature		deg C	23.0	25.0	25.0	24.0	23.0
Total Organic Carbon		ppm	20.0	6.6	35.0	108.0	14.6
Ammonia-N		mg/L	0.4	<	0.1	0.1	0.7
Nitrate-N		mg/L	<	2.0	<	0.2	56.2 <
Orthophosphate-P		mg/L	<	2.0	<	0.1 <	0.1 <
Potassium		mg/L	3090.0	2.8	4.8	108.0	19.0
Arsenic	50	ug/L	10.1	-			
Chromium	100	ug/L	9.0	-			
Lead	15	ug/L	7.2	-			
1,2-Dichloroethane	5	ug/L	26.0	4.0	48.0	40.0	24.0
Acetone	3500	ug/L	<	6.0	324.0	< 6.0 <	6.0
Benzene	5	ug/L	2.0	<	0.3	57.0 <	0.3
Toluene	1000	ug/L	<	0.5	< 0.5	24.0 <	0.5 <
Vinyl chloride	2	ug/L	<	1.2	< 1.2	311.0	17.0
							66.0

034954

French Limited Project

S1-123

Compound	Criteria	Units	12 - 94	08 - 95	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	8.0	6.1	14.6	3.2	2.2
pH		pH un	7.2	6.8	6.8	7.1	7.0
Specific Conductivity		umhos	600.0	550.0	370.0	500.0	550.0
Temperature		deg C	23.5	24.0	24.0	25.0	22.0
Total Organic Carbon		ppm		15.0	8.0	0.4	4.8
Ammonia-N		mg/L	0.1	0.4	<	0.1	0.3
Nitrate-N		mg/L	4.2	<	0.1	7.4	2.4
Orthophosphate-P		mg/L	<	2.0	<	0.1	0.8
Potassium		mg/L		16.9	24.2	5.3	8.2
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	320.0	46.0	18.0	180.0	680.0
Acetone		3500 ug/L	<	120.0	19.0	<	12.0
Benzene		5 ug/L	<	6.0	<	0.3	<
Toluene		1000 ug/L	<	10.0	<	0.5	<
Vinyl chloride		2 ug/L	<	24.0	<	1.2	<
						2.4	4.0
						<	12.0

034955

French Limited Project

S1-131

Compound	Criteria	Units	06 - 93	05 - 95	06 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm		5.0	9.4	9.0	1.4
pH		pH un		7.0	6.9	7.2	7.5
Specific Conductivity		umhos		1000.0	1200.0	600.0	550.0
Temperature		deg C		24.0	24.0	24.0	22.0
Total Organic Carbon		ppm			<	3.0	20.8
Ammonia-N		mg/L		0.1	<	0.1	1.8
Nitrate-N		mg/L		5.7		8.6	306.0
Orthophosphate-P		mg/L		<	0.7	<	0.1
Potassium		mg/L		14.0		62.6	91.9
Arsenic	50	ug/L					
Chromium	100	ug/L					
Lead	15	ug/L					
1,2-Dichloroethane	5	ug/L	<	25.0	<	80.0	<
Acetone	3500	ug/L	<	50.0	10000.0	<	6.0
Benzene	5	ug/L		600.0	<	30.0	8.0
Toluene	1000	ug/L		48.0	<	50.0	3.0
Vinyl chloride	2	ug/L	<	50.0	<	120.0	<
						1.2	<
							1.2

034956
French Limited Project

S1-135

Compound	Criteria	Units	12 - 93	12 - 94	12 - 95	01 - 96	04 - 96
Dissolved Oxygen		ppm	2.8	0.8	0.6	1.6	1.7
pH		pH un	6.1	6.2	6.2	6.5	6.6
Electric Conductivity		umhos	400.0	455.0	420.0	350.0	300.0
Temperature		deg C	20.0	24.0	25.0	23.0	21.0
Total Organic Carbon		ppm		18.1	52.0	< 0.5	16.4
Ammonia-N		mg/L		0.4		0.9	0.7
Nitrate-N		mg/L		< 2.0		< 0.2	< 0.2
Orthophosphate-P		mg/L		< 2.0		< 0.1	< 0.1
Potassium		mg/L		4.0		7.3	5.6
Arsenic	50	ug/L		209.0	195.0	169.0	40.0
Chromium	100	ug/L		4.9	13.0	13.0	< 10.0
Lead	15	ug/L	<	2.5	< 5.0	5.0	< 5.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 3.0
Toluene	1000	ug/L	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

BOOKMARK

Appendix B

034958

Natural Attenuation Progress Report
2nd Quarter, 1996

French Limited Project
FLTG, Inc.

Appendix B

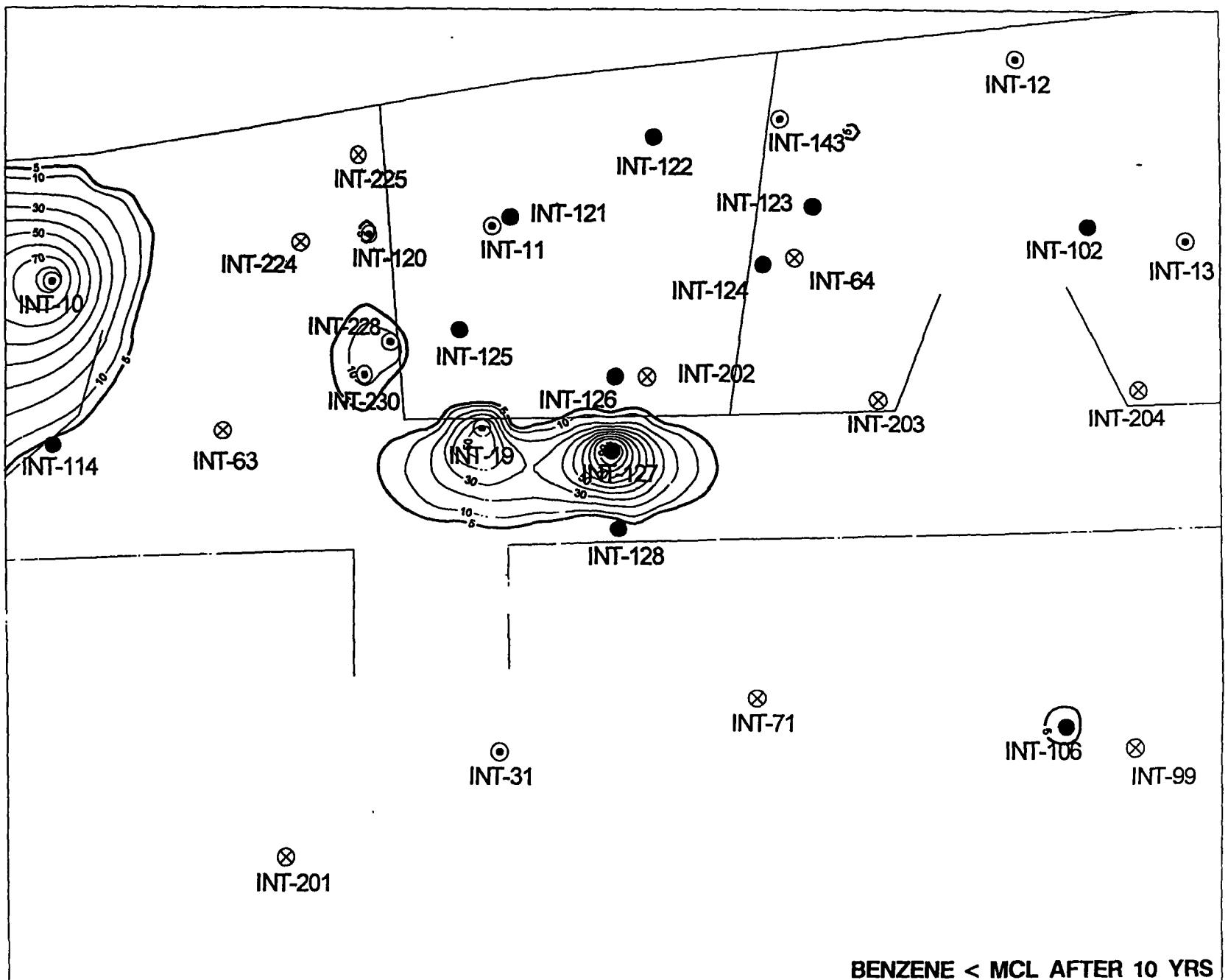
Demonstration

034959

INT WALL DEMONSTRATION - INITIAL

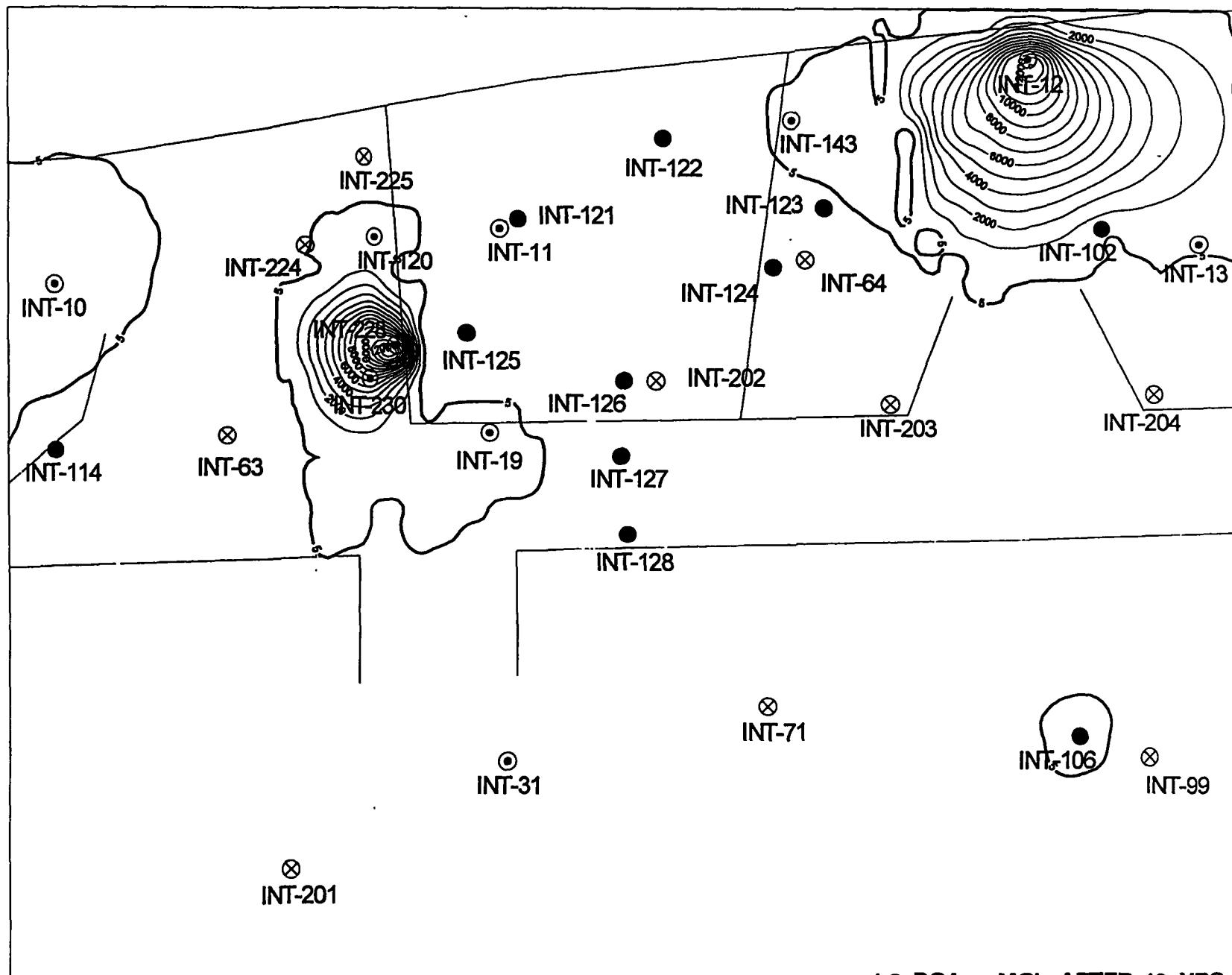
INT WALL DEMONSTRATION: BENZENE (ppb) INITIAL

034960



INT WALL DEMONSTRATION: 1,2 DCA (ppb) INITIAL

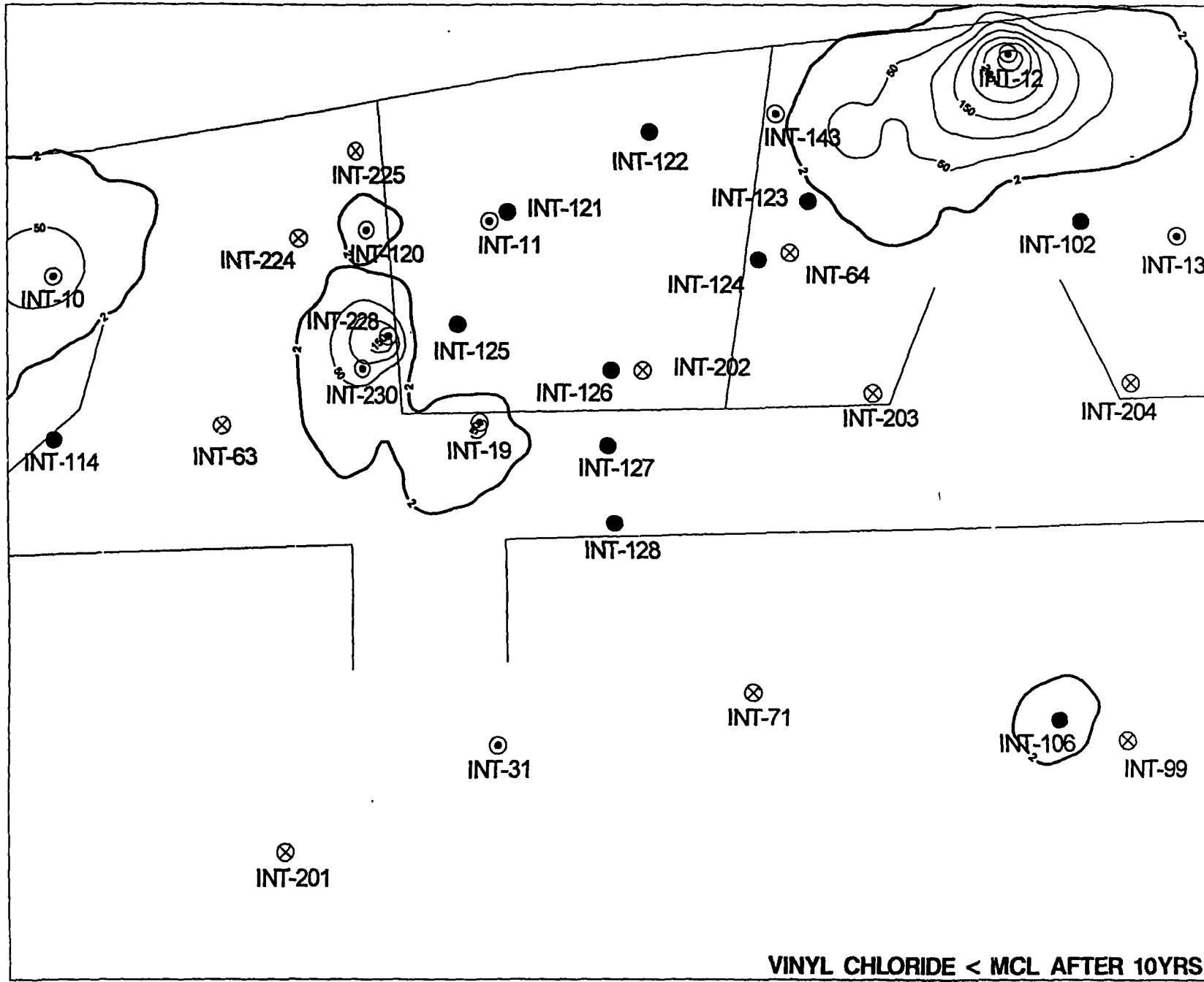
034961



1,2-DCA < MCL AFTER 10 YRS

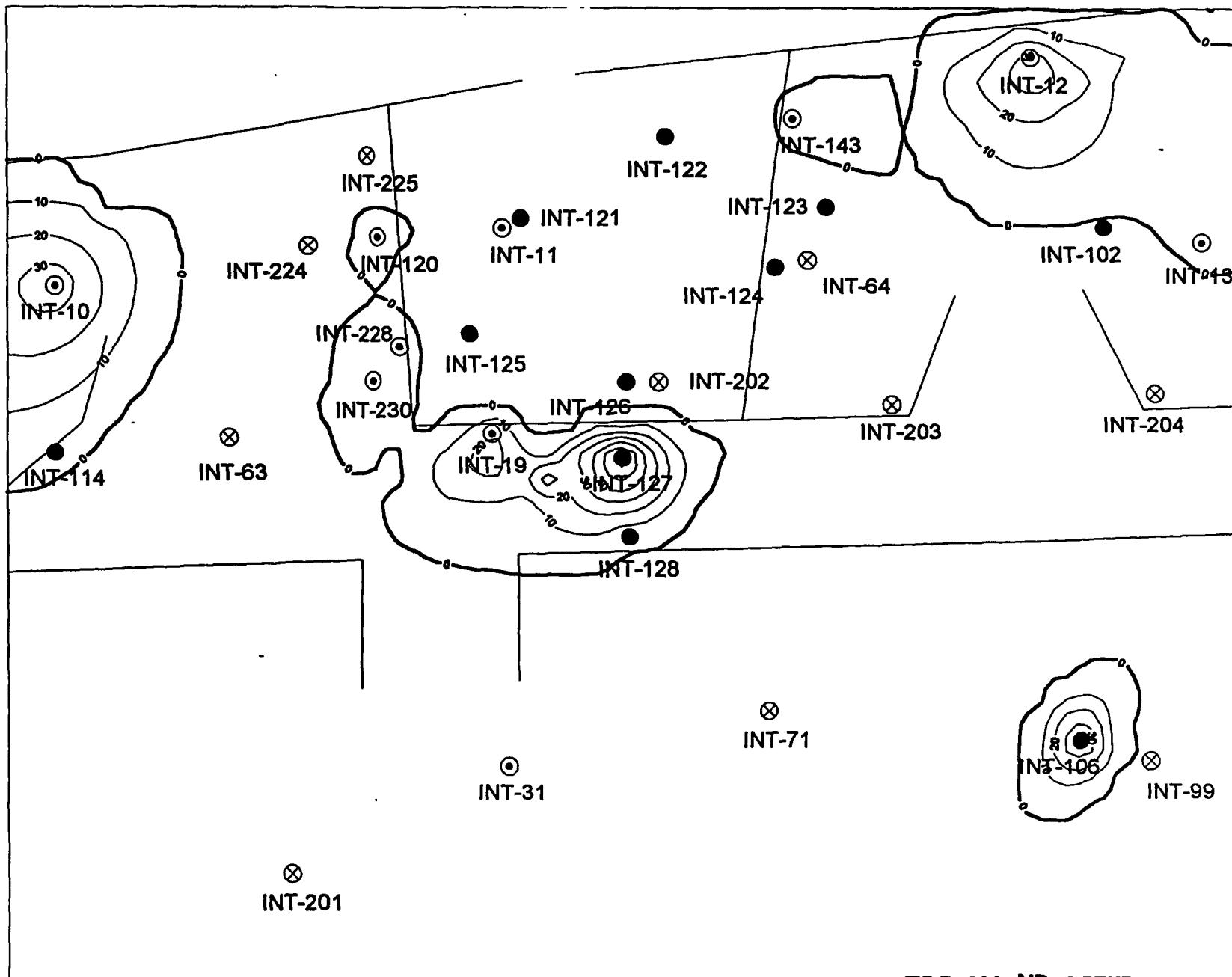
INT WALL DEMONSTRATION ... /L CHLORIDE (ppb) INITIAL

034962



INT WALL DEMONSTRATION: TOC (ppm) INITIAL

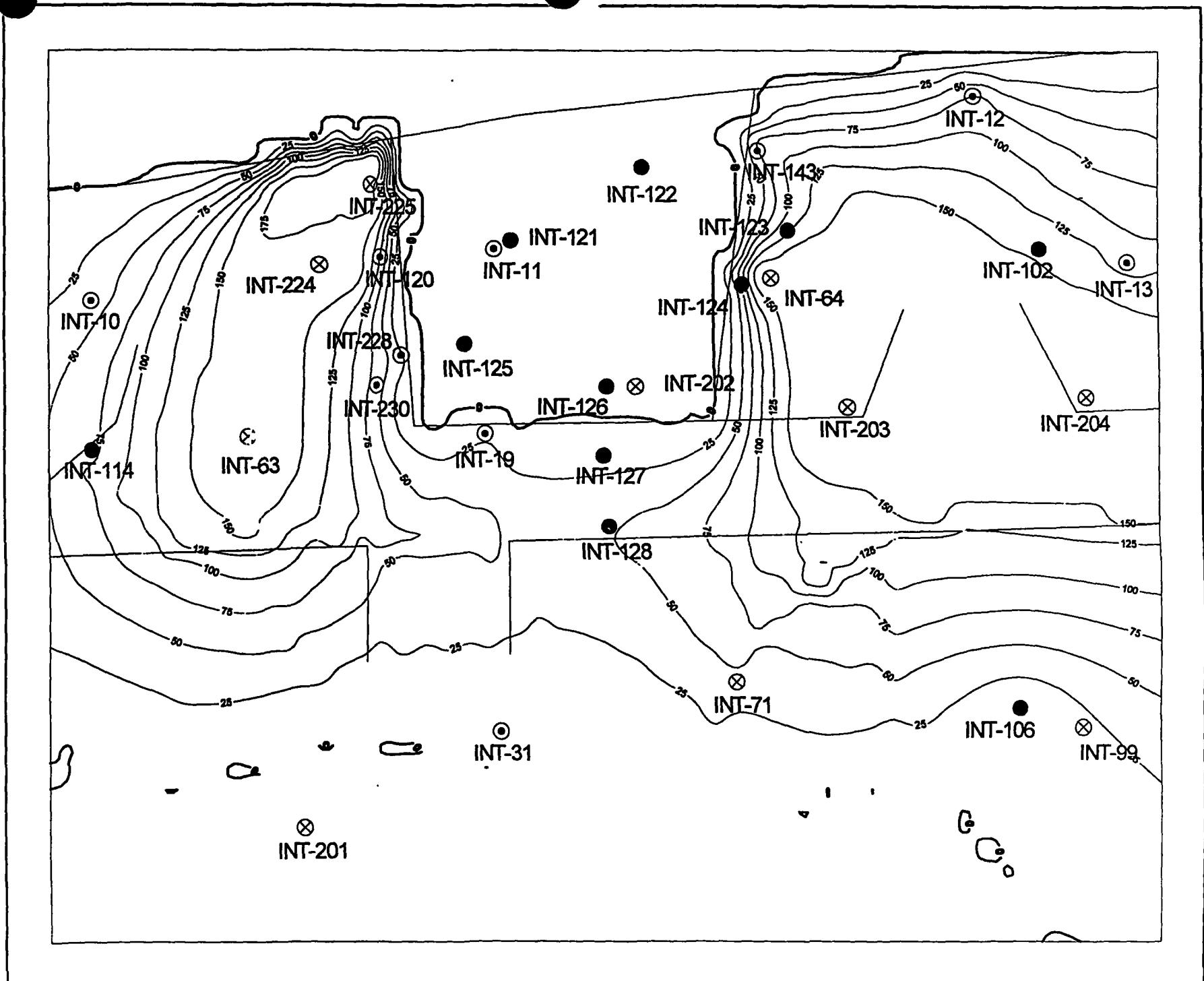
034963



TOC ALL ND AFTER 10 YRS

INT WALL DEMONSTRATION ION DO+ (ppm) INITIAL

034964



034965

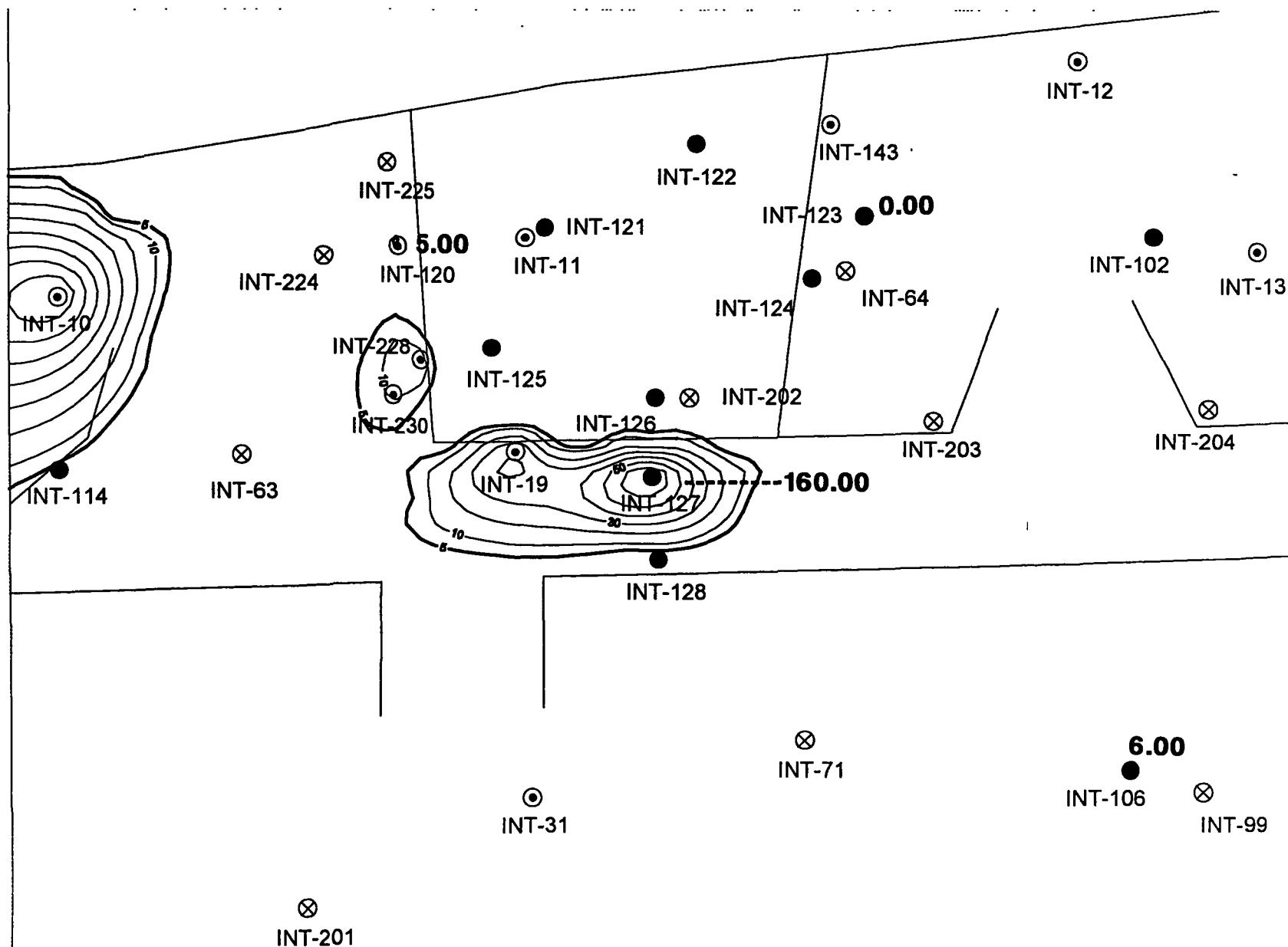
INT WALL DEMONSTRATION - 6 MONTHS

**INT WALL AREA: MEASURED VERSUS MODELED CONCENTRATIONS
DEMONSTRATION RUN - 6 MONTHS
APRIL 1996**

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO+NO3 (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-120	5.00	4.53	21.00	652.29	0.00	13.07	2.20	3.56	58.25	0.48
INT-123	0.00	0.00	210.00	0.00	0.00	0.00	2.10	0.00	64.40	101.89
INT-127	160.00	65.30	0.00	0.73	0.00	0.13	35.00	57.99	120.55	0.08
INT-106	6.00	3.61	63.00	10.56	0.00	5.60	11.10	29.87	1.40	0.01

INT WALL DEMONSTRATION BENZENE (ppb) 6 MONTHS

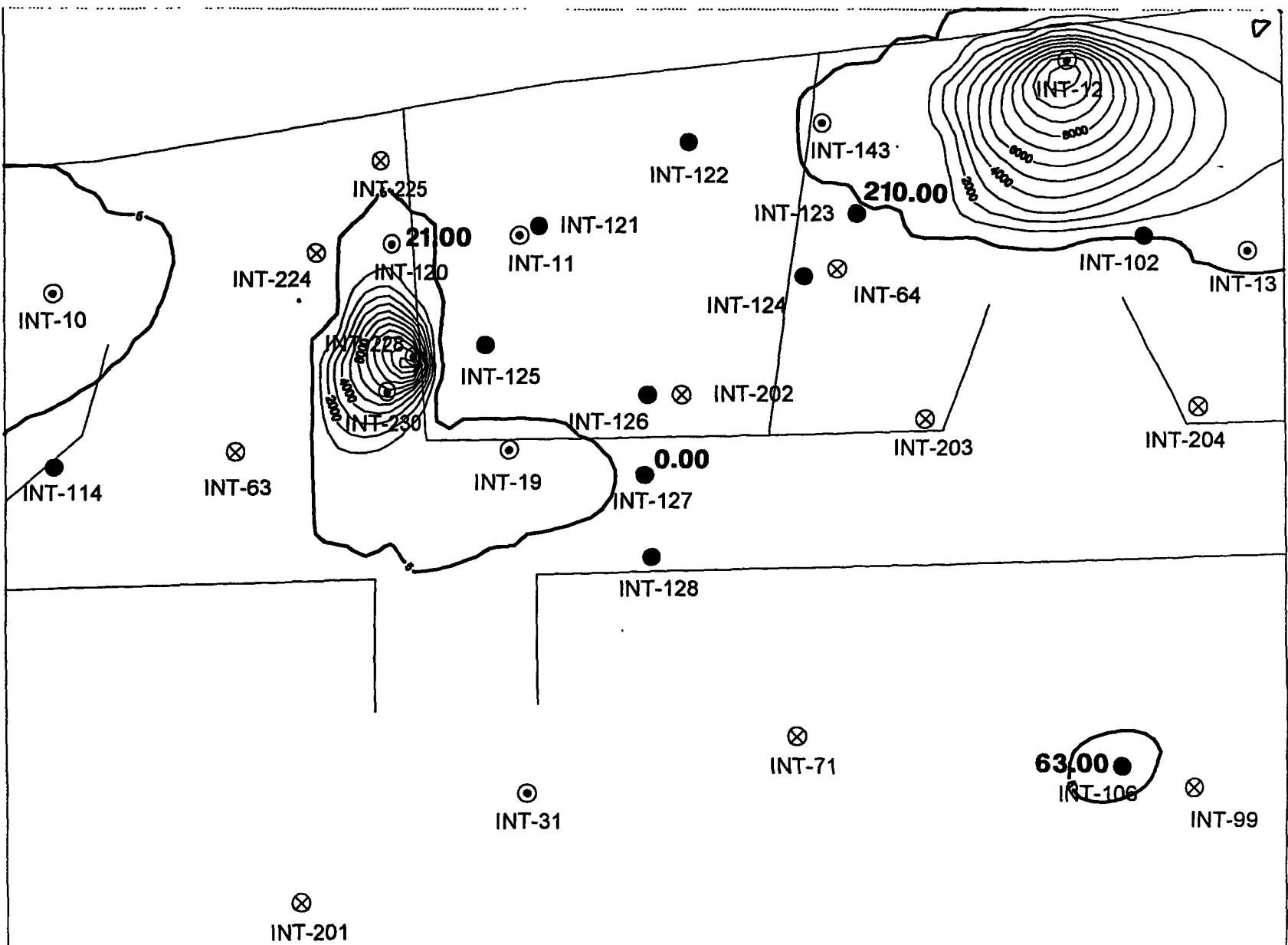
034967



POSTED NUMBERS ARE APRIL 1996 MEASURED VALUES

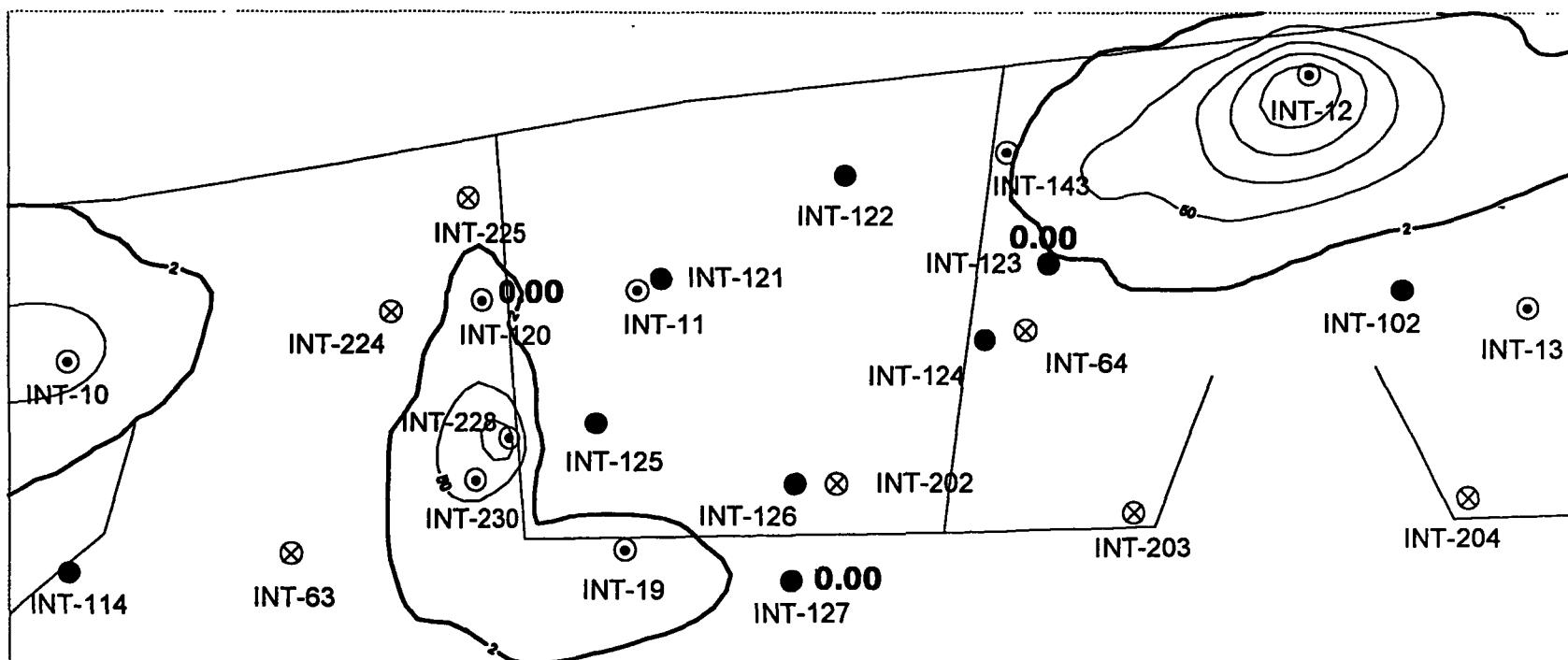
034968

INT WALL DEMONSTRAT: 1,2-DCA (ppb) 6 MONTHS



INT WALL DEMONSTRATION: VINYL CHLORIDE (ppb) 6 MONTHS

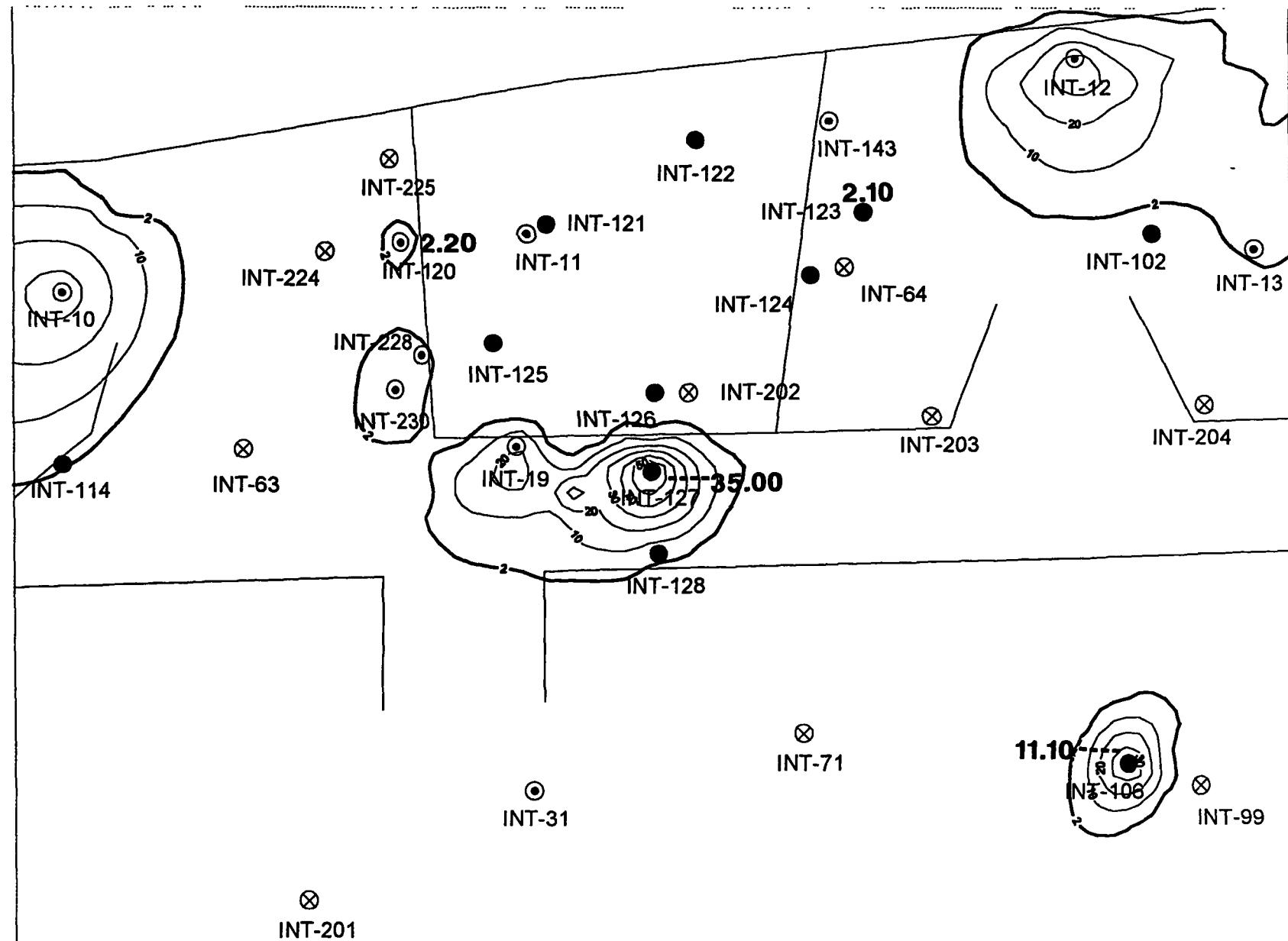
034969



POSTED NUMBERS ARE APRIL 1996 MEASURED VALUES

INT WALL DEMONSTRATION: TOC (ppm) 6 MONTHS

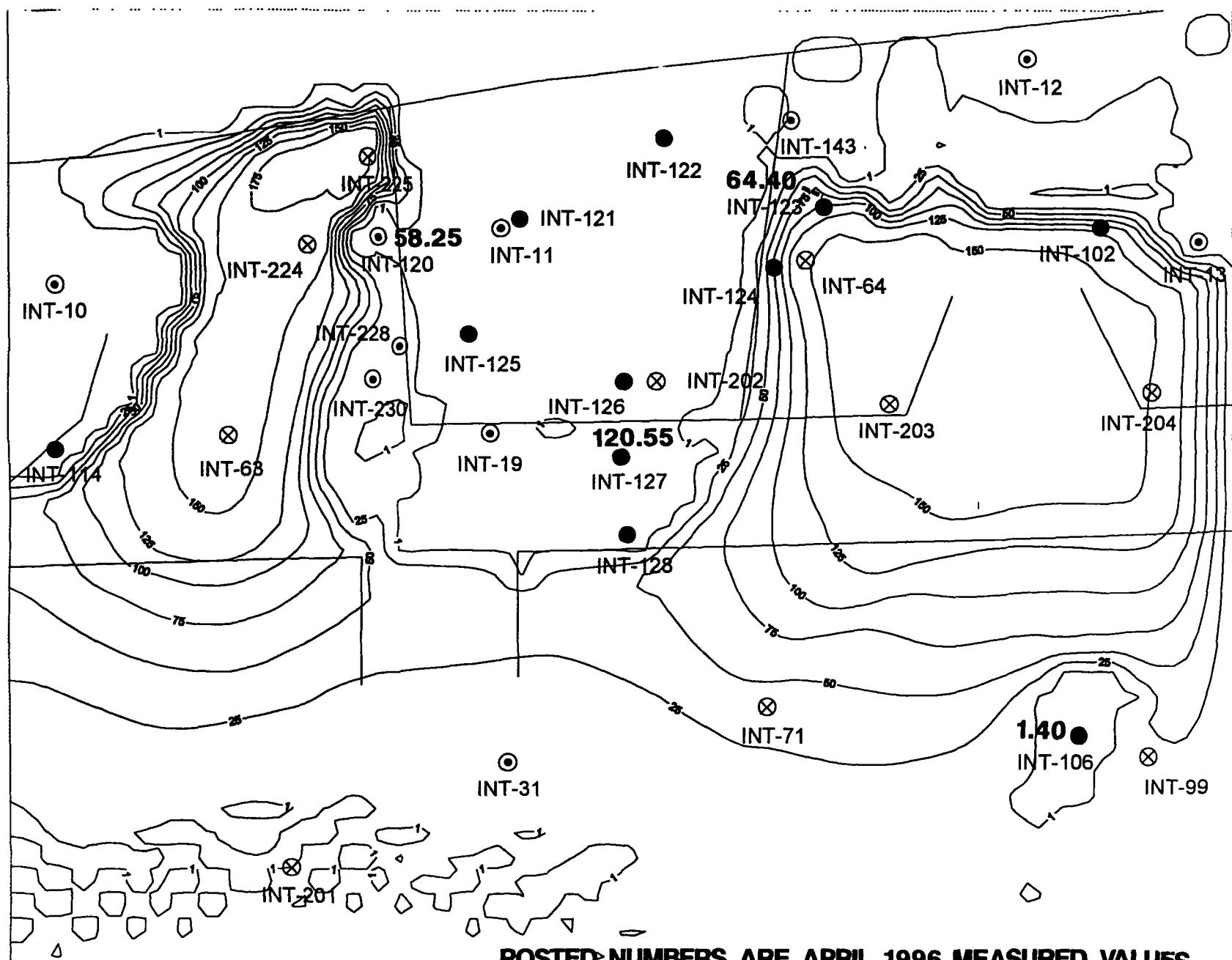
04970



INT WALL DEMONSTRATION

DO+ (ppm) 6 MONTHS

034971

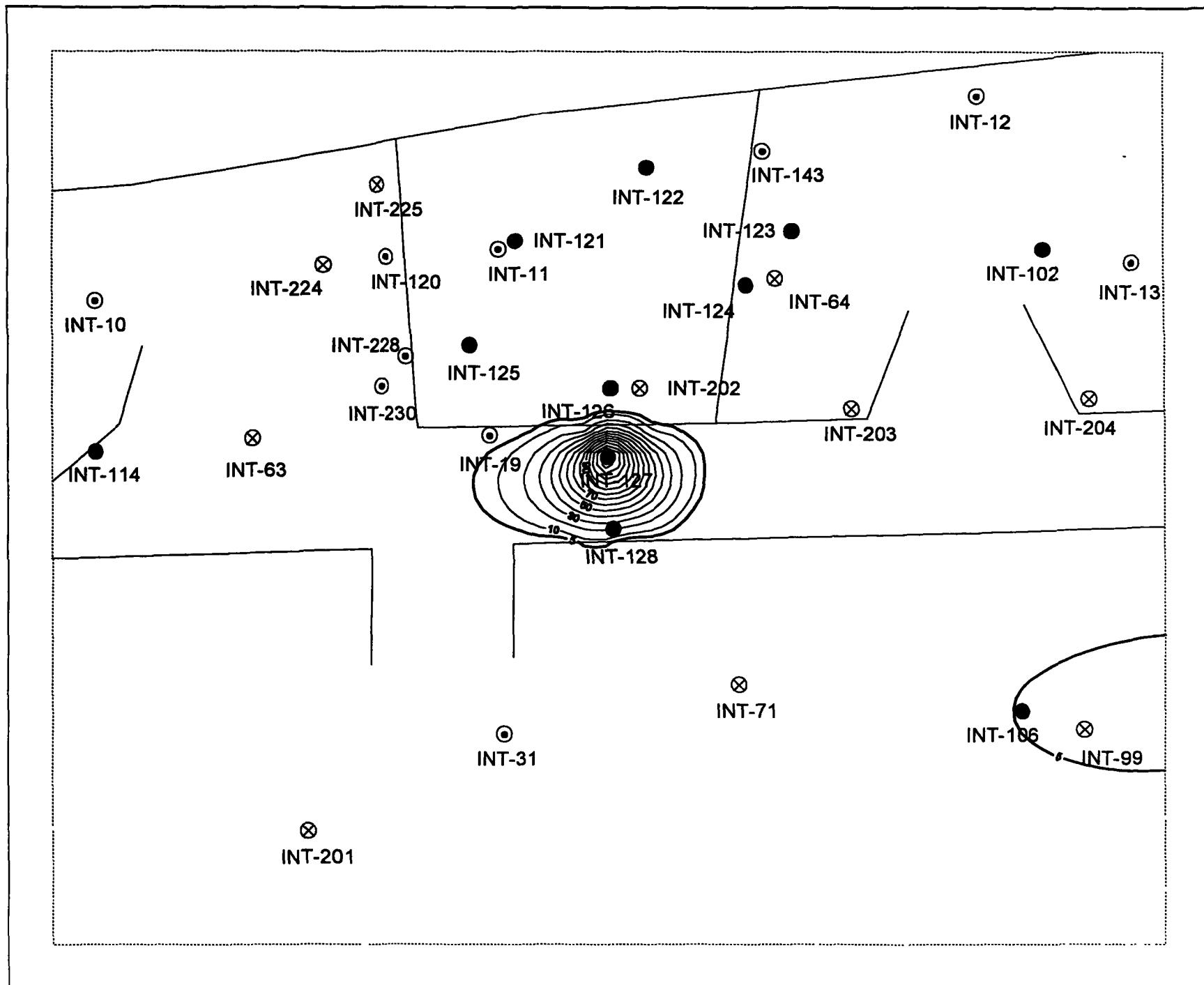


2

INT WALL APRIL 1996 - INITIAL

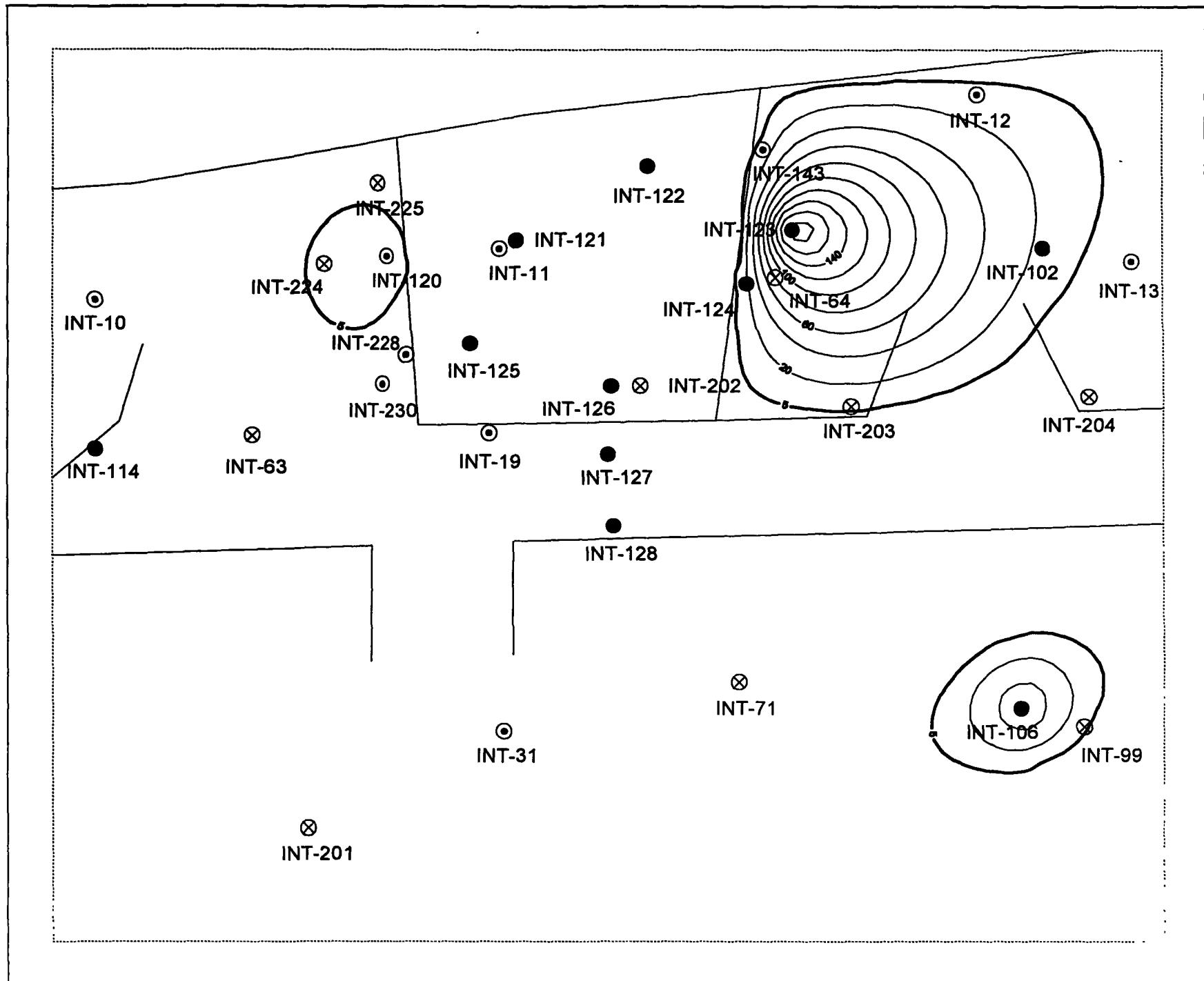
034973

INT WALL APRIL 1996. BENZENE (ppb) INITIAL



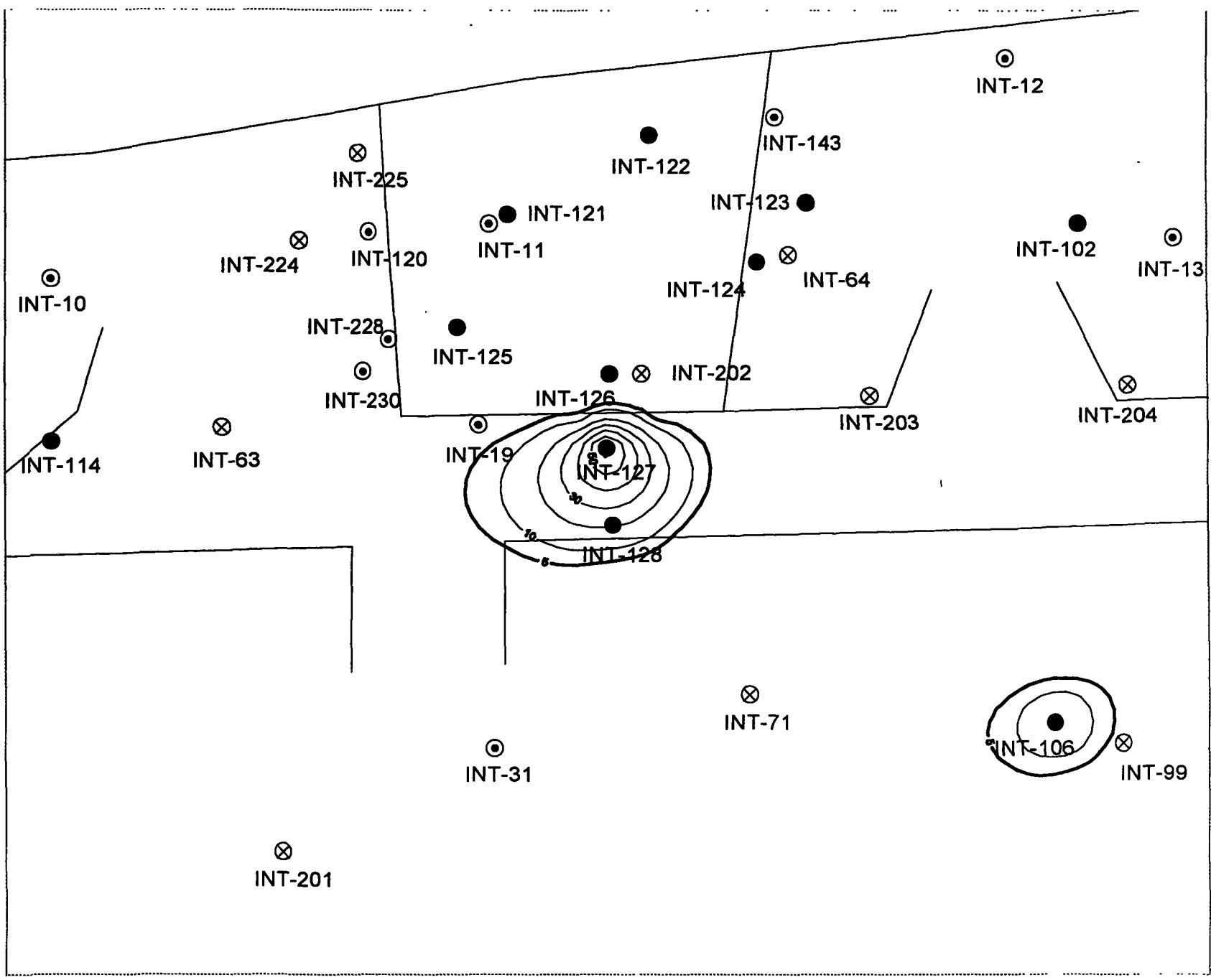
034974

INT WALL APRIL 1996: 1,2-DCA (ppb) INITIAL



INT WALL APRIL 1996: VINYL CHLORIDE (ppm) INITIAL

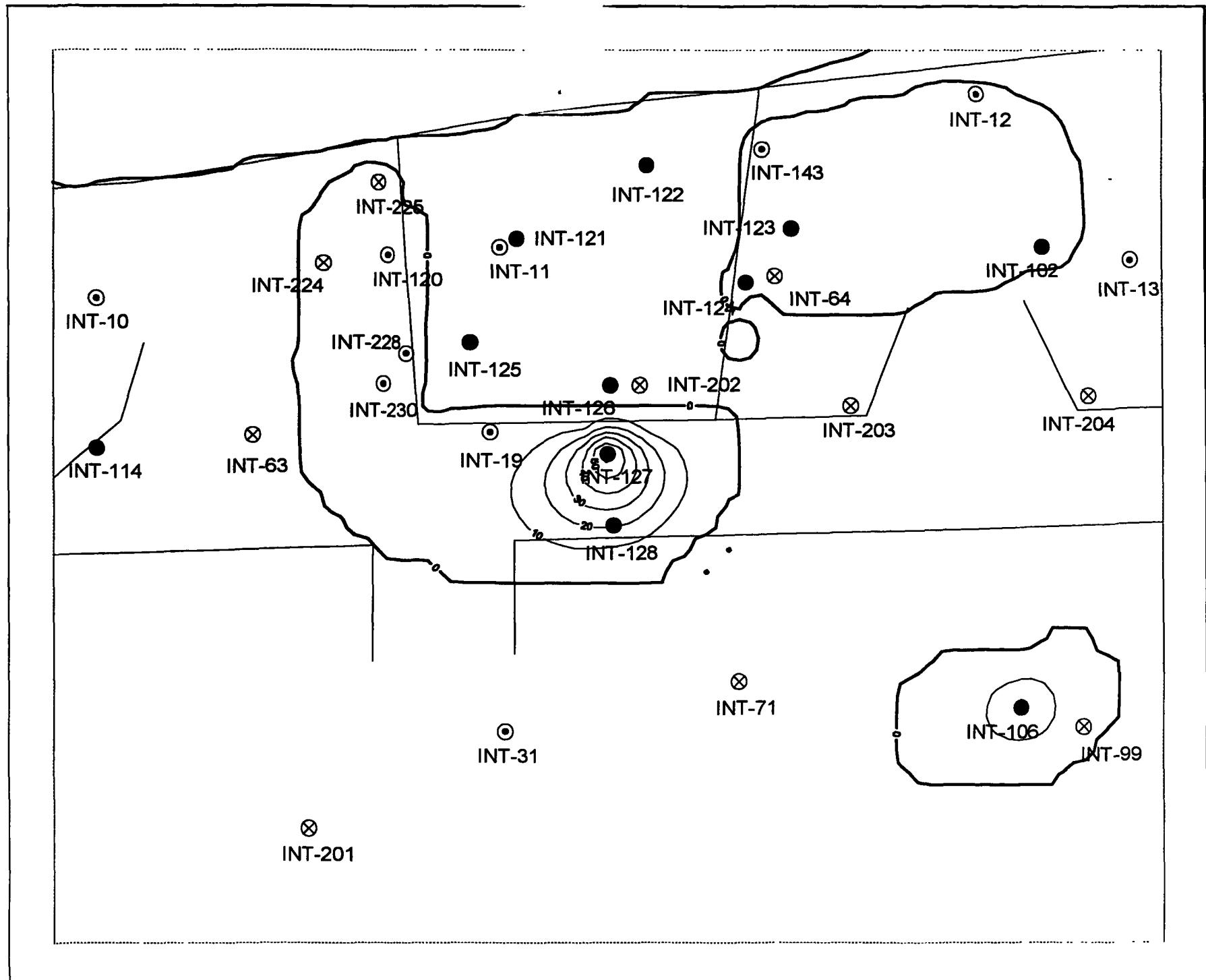
034975



INT WALL APR II

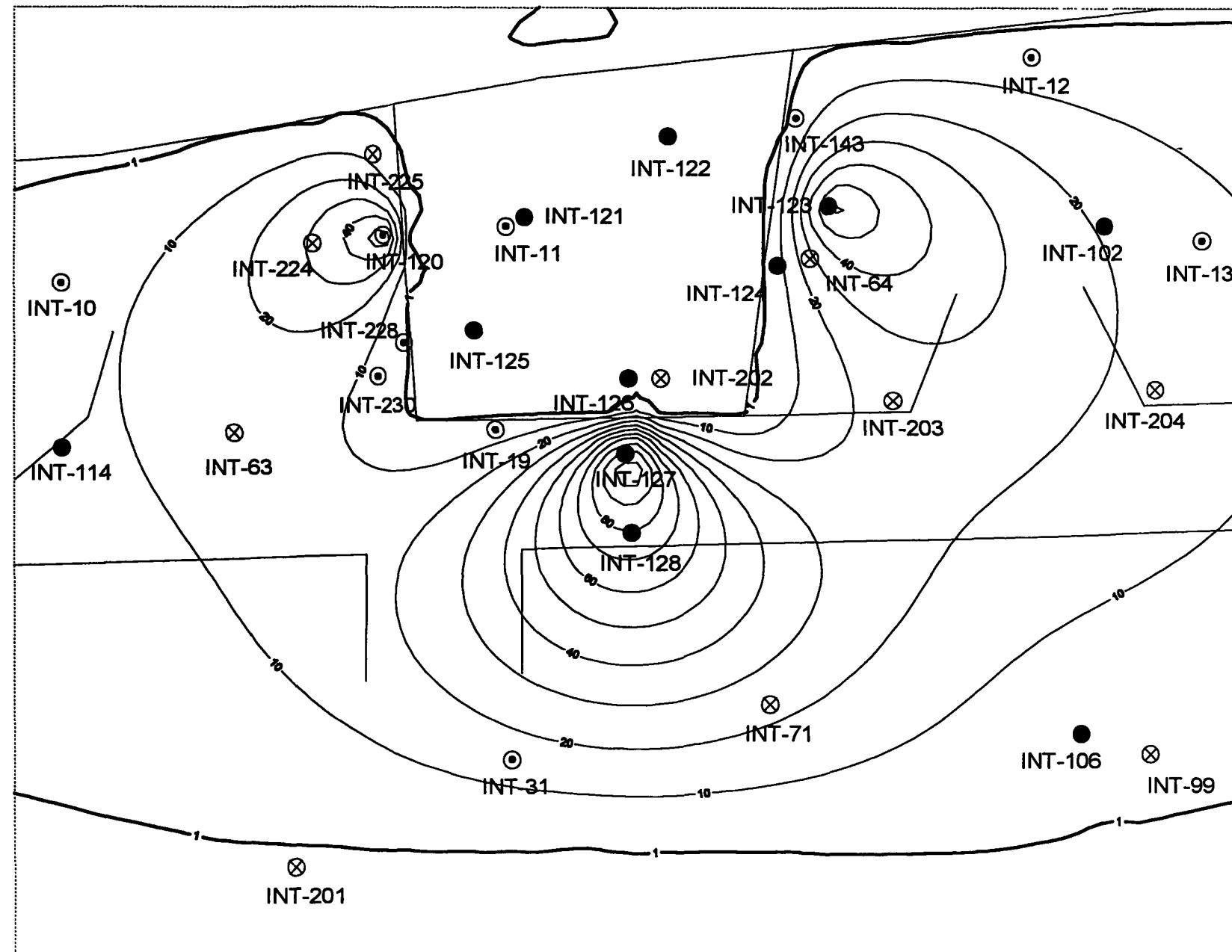
6: TOC (ppm) INITIAL

034976



44180

INT WALL APRIL 1985: DO+ (ppm) INITIAL

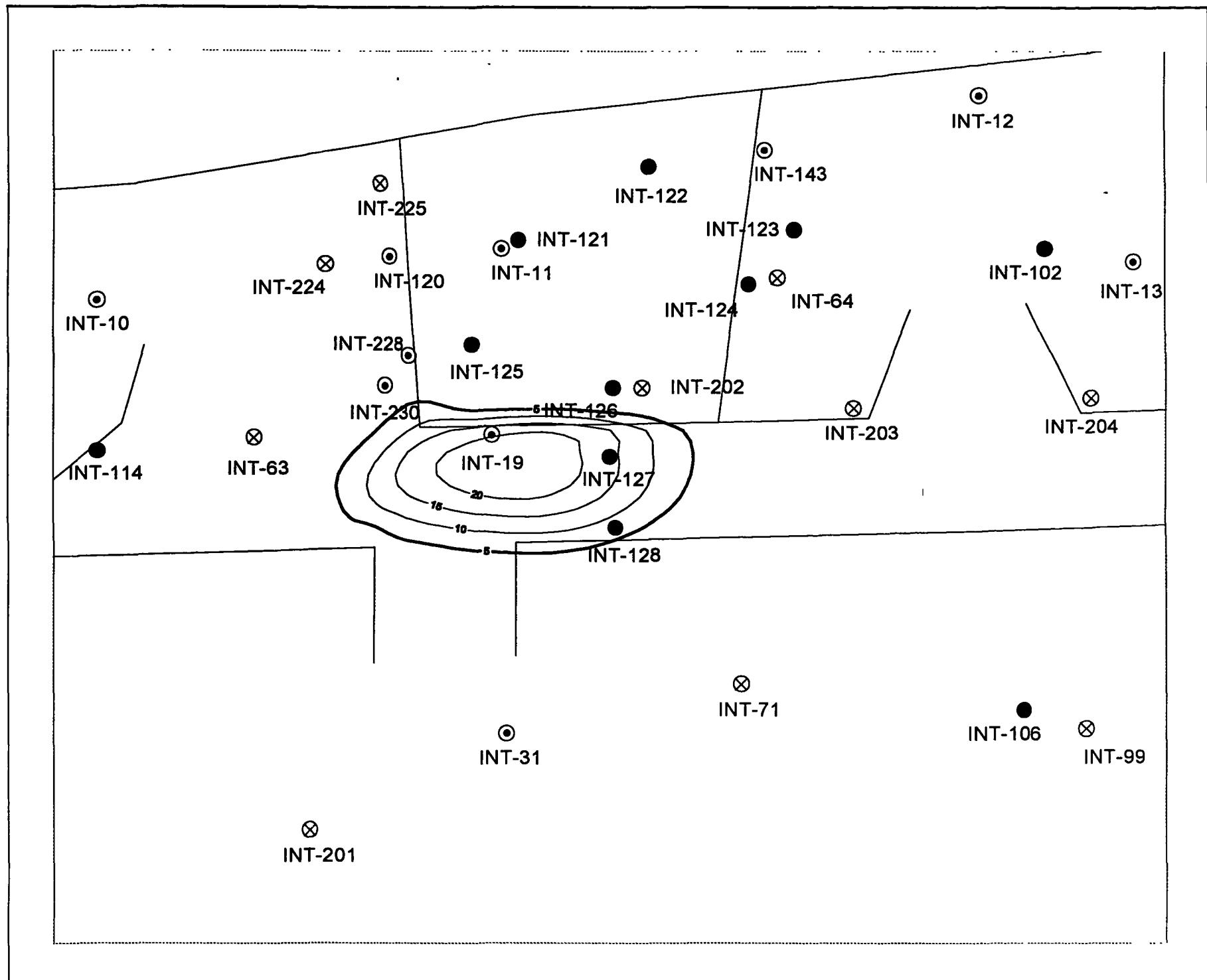


034978

INT WALL APRIL 1996 - 9.5 YEARS

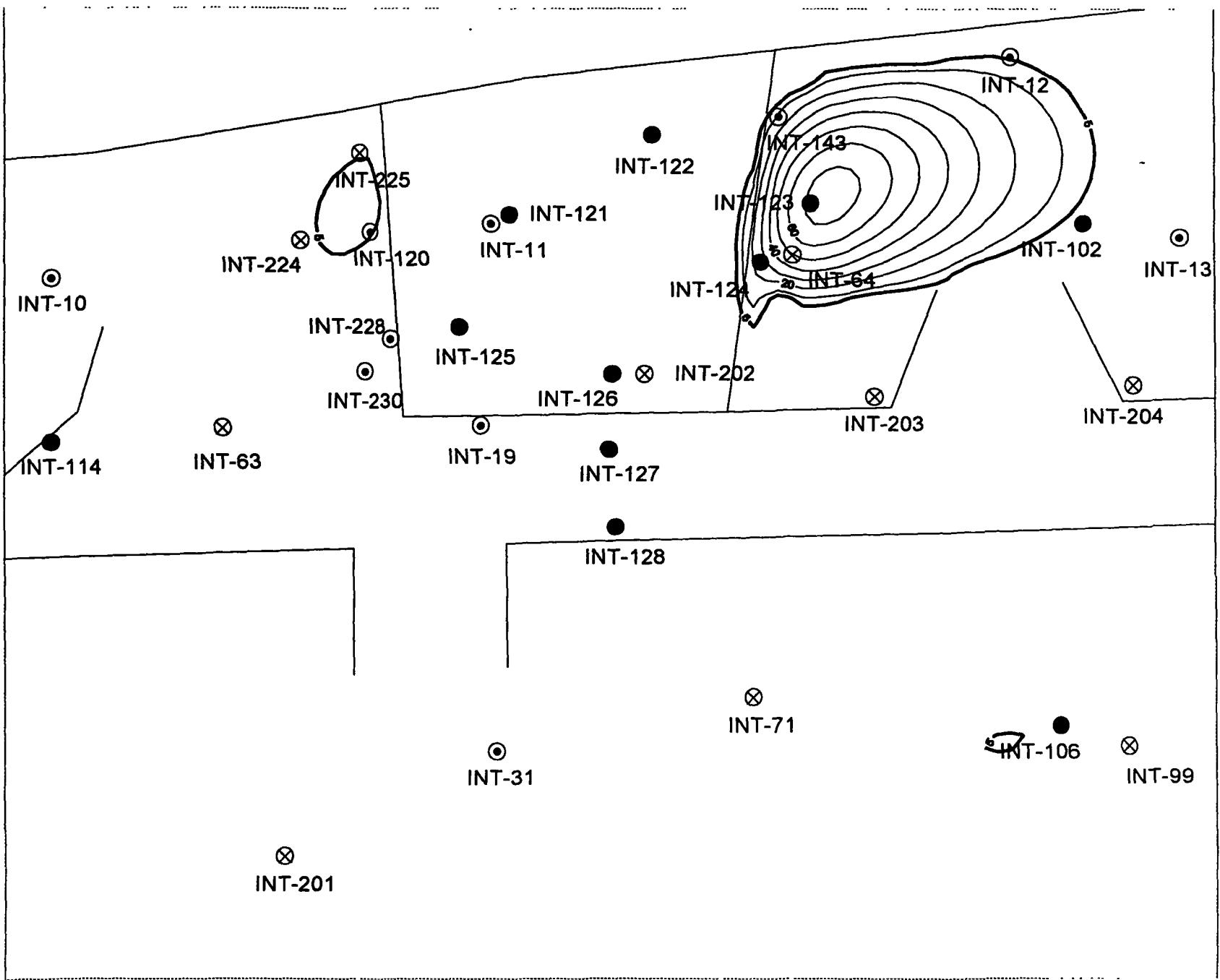
INT WALL APRIL 1996: BENZENE (ppb) 9.5 YEARS

034979



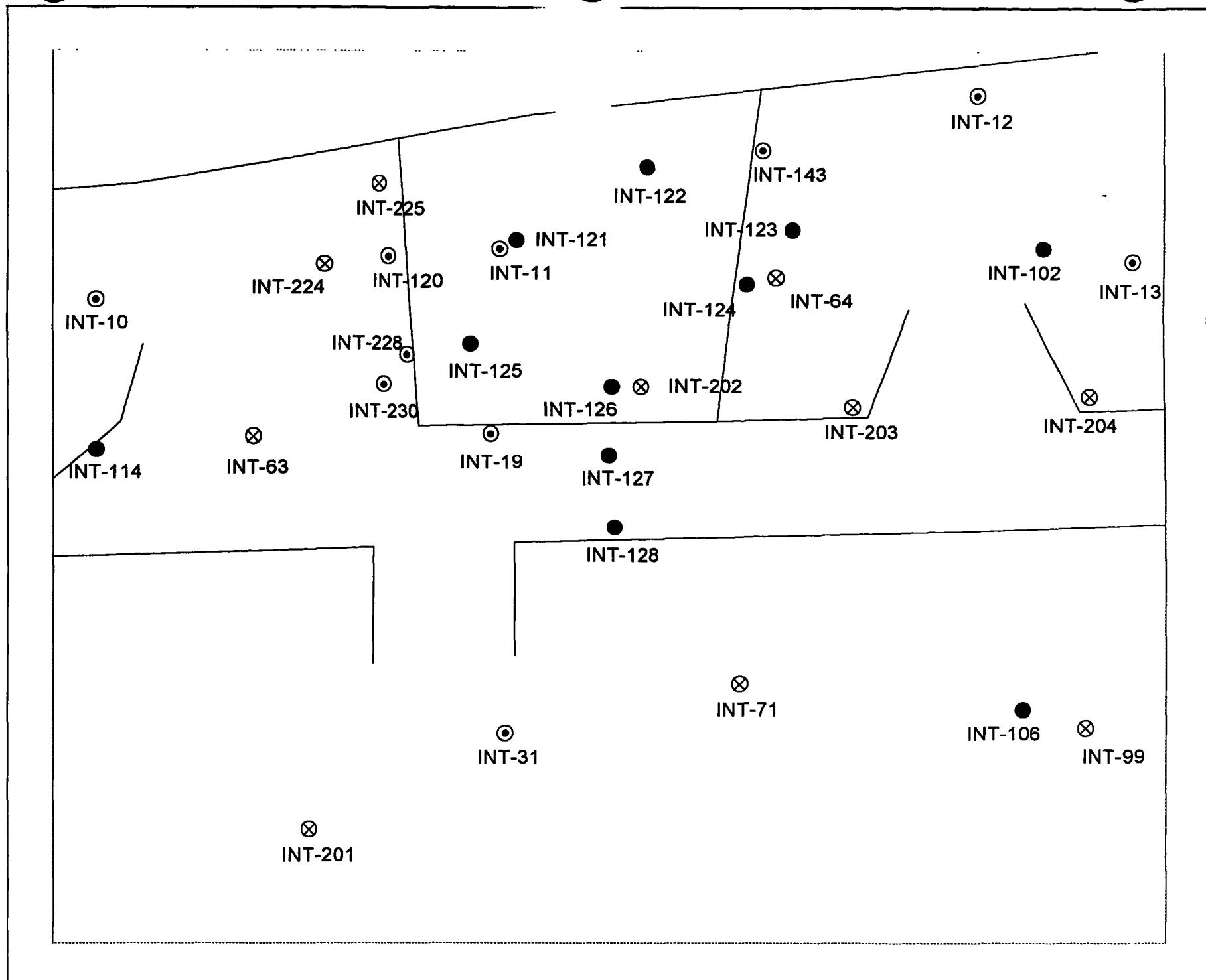
INT WALL APRIL 1996 1,2-DCA (ppb) 9.5 YEARS

034980



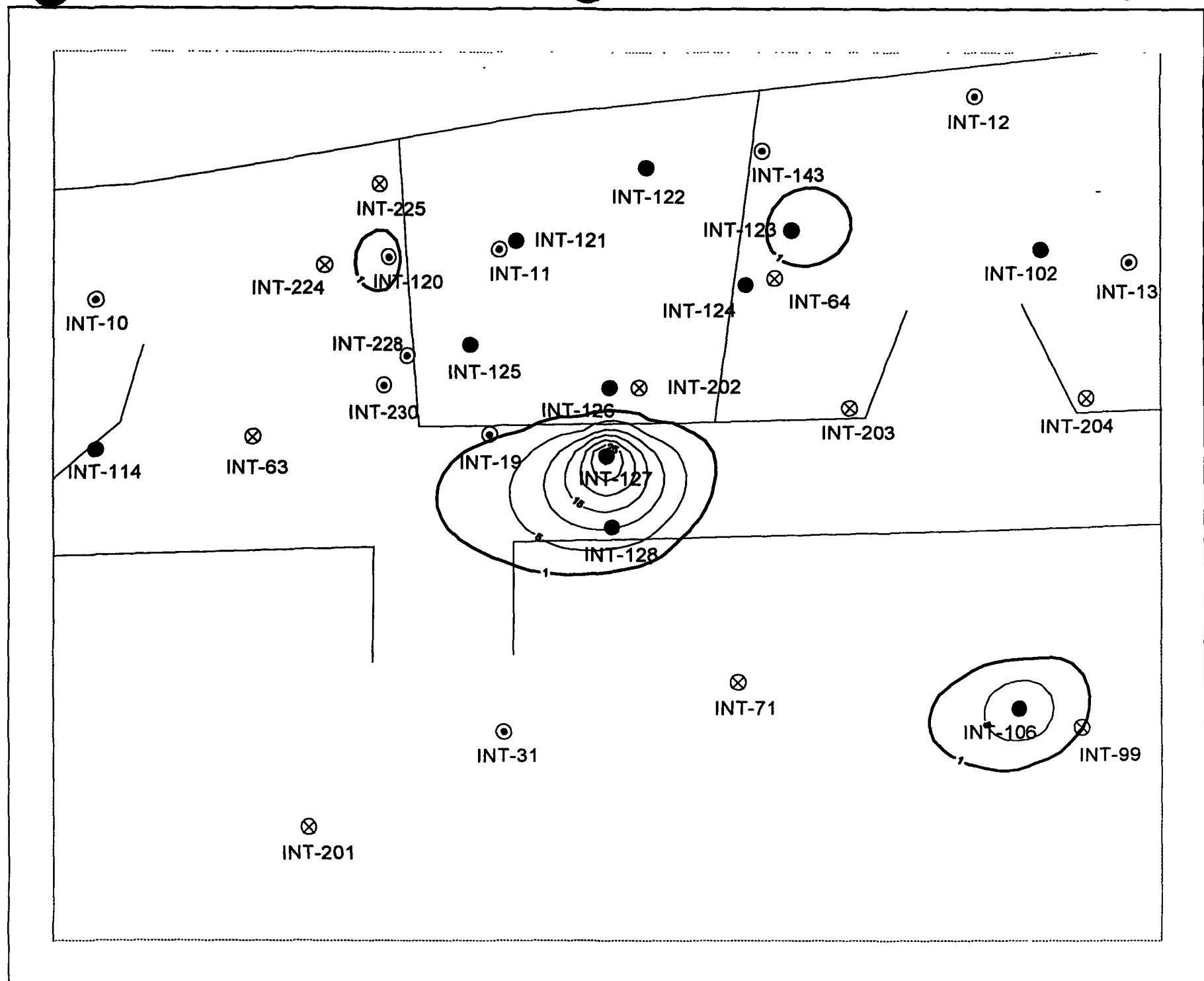
INT WALL APRIL 1996: V. CHLORIDE (ppb) 9.5 YEARS

034981



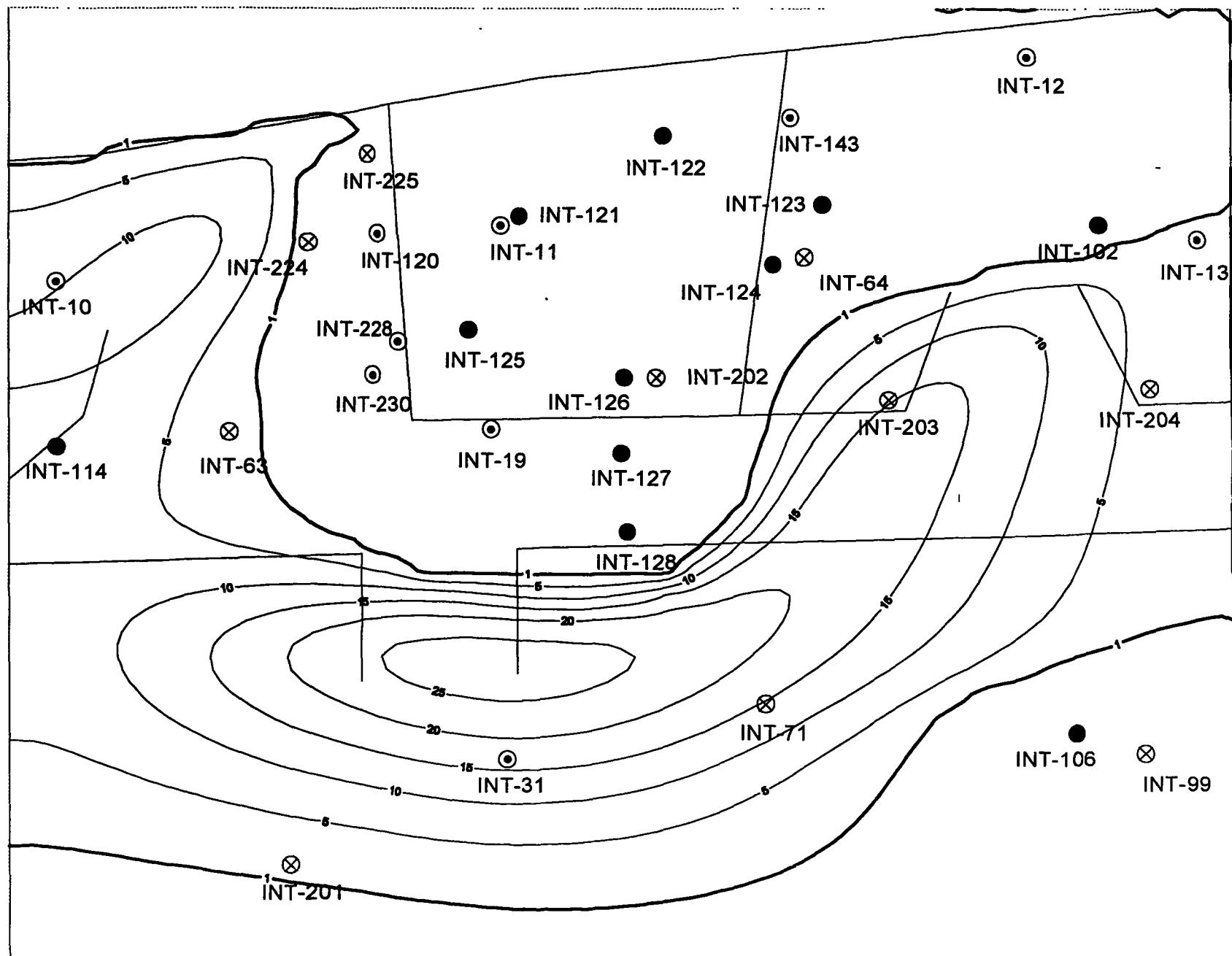
INT WALL APRIL 1995 TOC (ppm) 9.5 YEARS

034982



INT WALL APRIL 19 DO+ (ppm) 9.5 YEARS

034983

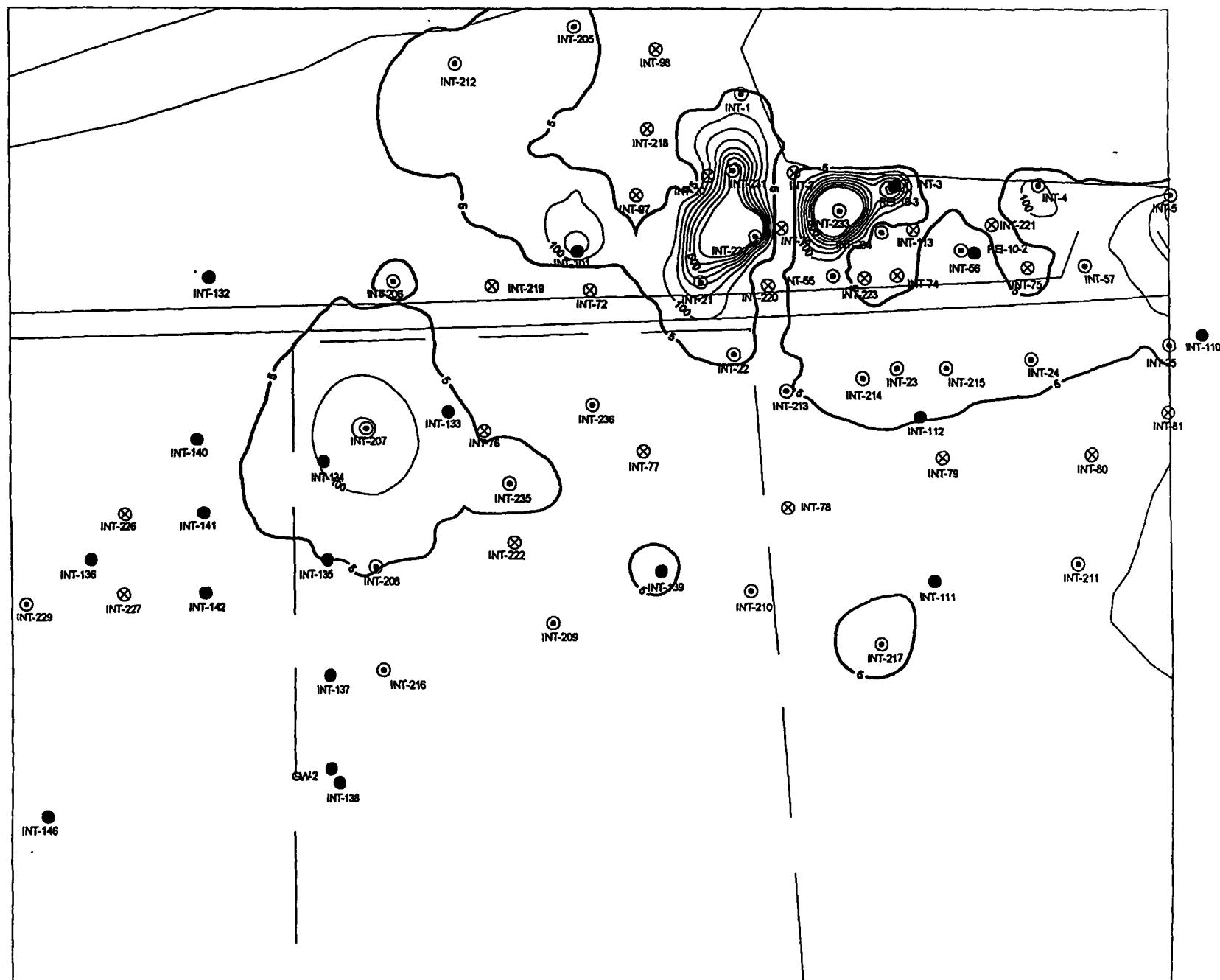


034984

INT WEST DEMONSTRATION - INITIAL

INT WEST DEMONSTRATION: BENZENE (ppb) INITIAL

034985



INT WEST DEMON

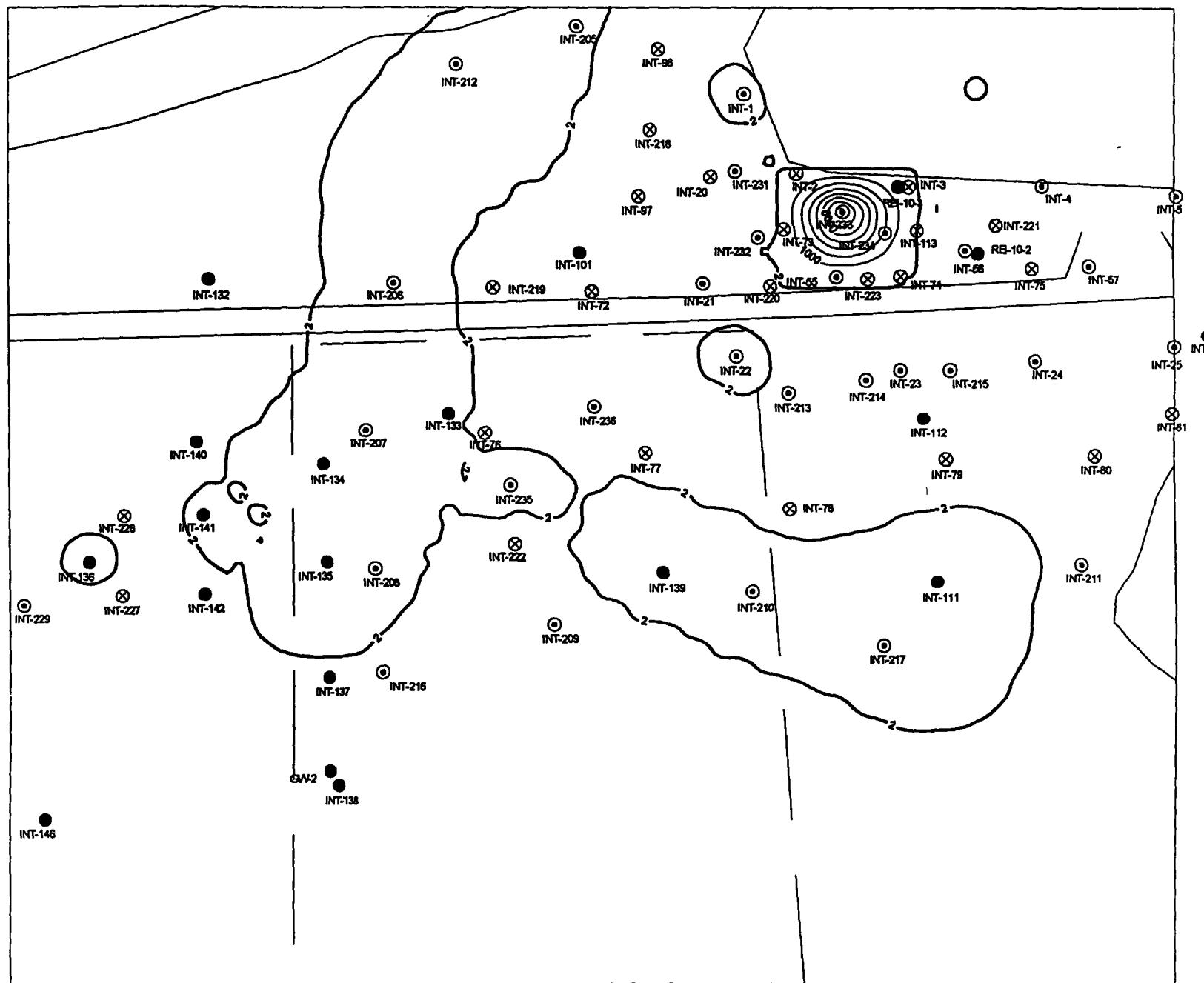
ATION: 1,2-DCA (ppb) INITIAL

031996



INT WEST DEMONSTRATION: VINYL CHLORIDE (ppb) INIT

034987



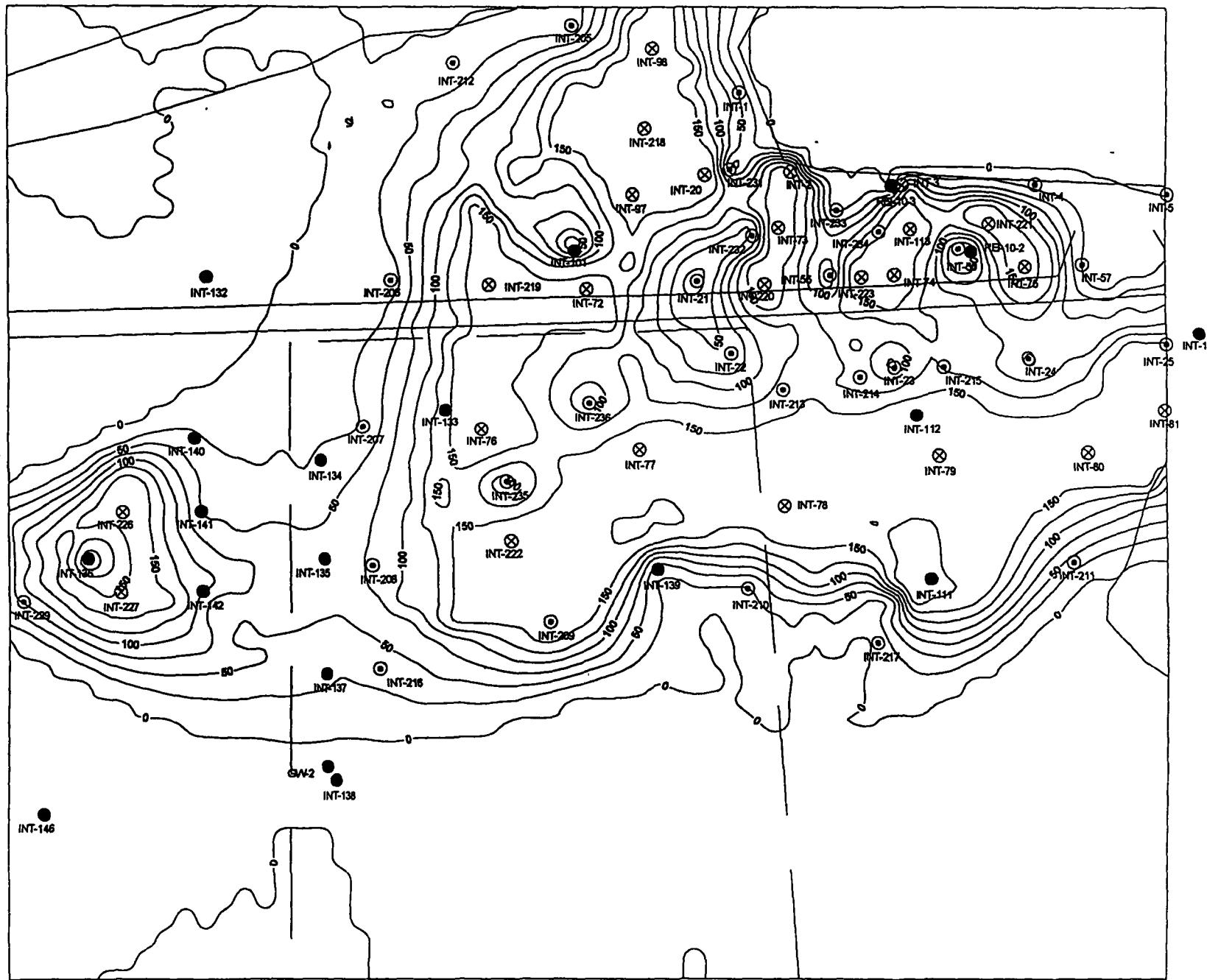
INT WEST DEMONSTRATION: TOC (ppm) INITIAL

034988



INT WEST DEMONSTRATION: DO+ (ppm) INITIAL

034939



034990

INT WEST DEMONSTRATION - 6 MONTHS

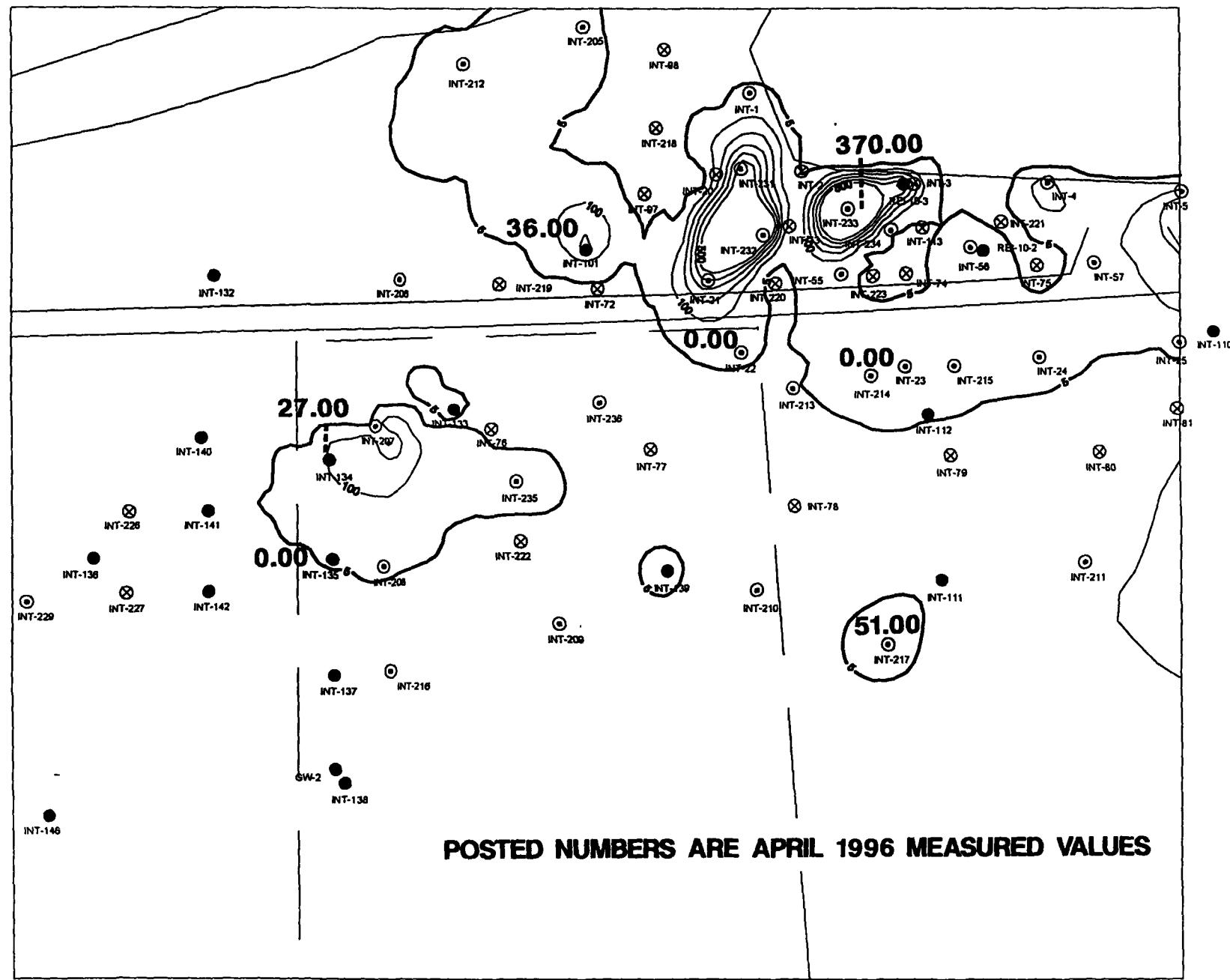
034991

**INT WEST AREA: MEASURED VERSUS MODELED CONCENTRATIONS
DEMONSTRATION RUN - 6 MONTHS
APRIL 1996**

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO+NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-134	27.00	104.60	67.00	192.90	19.00	261.30	10.80	1.18	2.45	0.65
INT-135	0.00	11.97	0.00	35.55	0.00	92.95	7.20	1.27	1.00	0.06
INT-217	51.00	17.62	0.00	21.27	8.00	56.07	28.40	25.93	0.90	0.01
INT-214	0.00	38.83	0.00	2.42	0.00	0.00	1.50	19.29	5.15	0.01
INT-022	0.00	13.39	0.00	5.82	0.00	8.70	2.10	12.21	4.20	0.01
INT-233	370.00	1319.12	0.00	0.28	0.00	4937.89	132.00	1035.05	0.70	1.10
INT-101	36.00	186.21	0.00	0.00	0.00	0.00	14.70	32.11	1.40	0.01

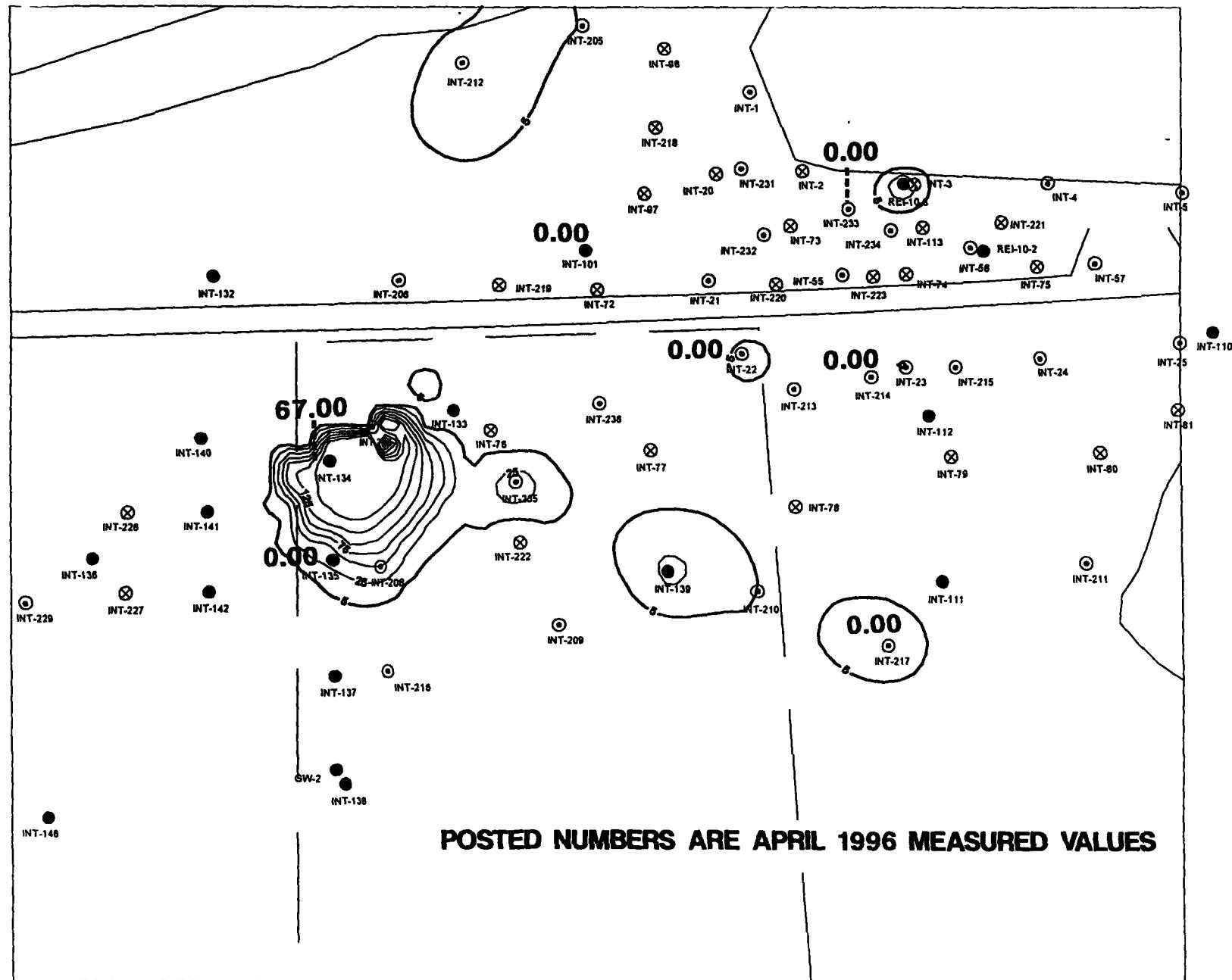
INT WEST DEMONSTRATION BENZENE (ppb) 6 MONTHS

031992



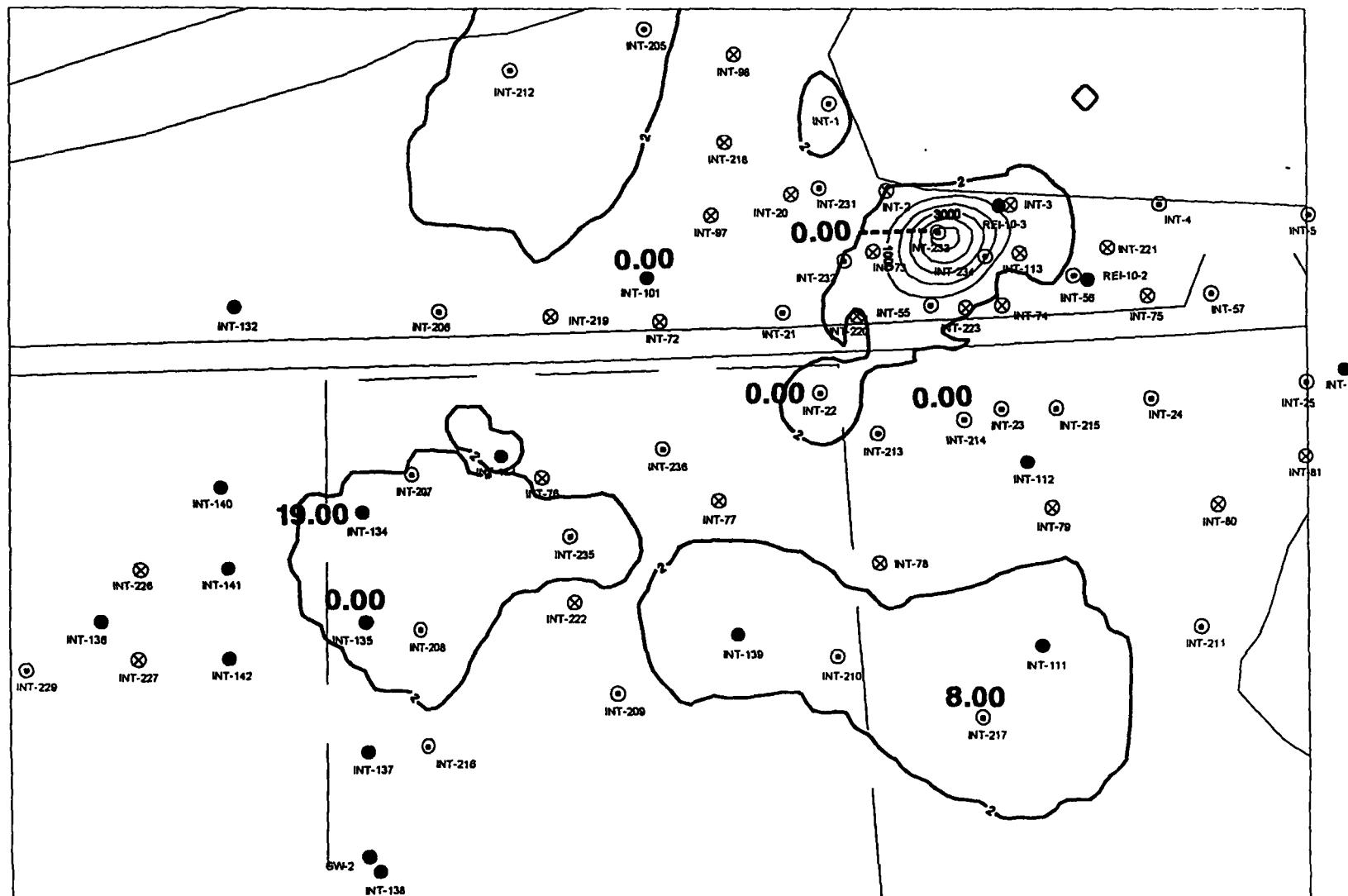
034993

INT WEST DEMONSTRATION: 1,2-DCA (ppb) 6 MONTHS



INT WEST DEMONSTRATION: VINYL CHLORIDE (ppb) 6 MONTHS

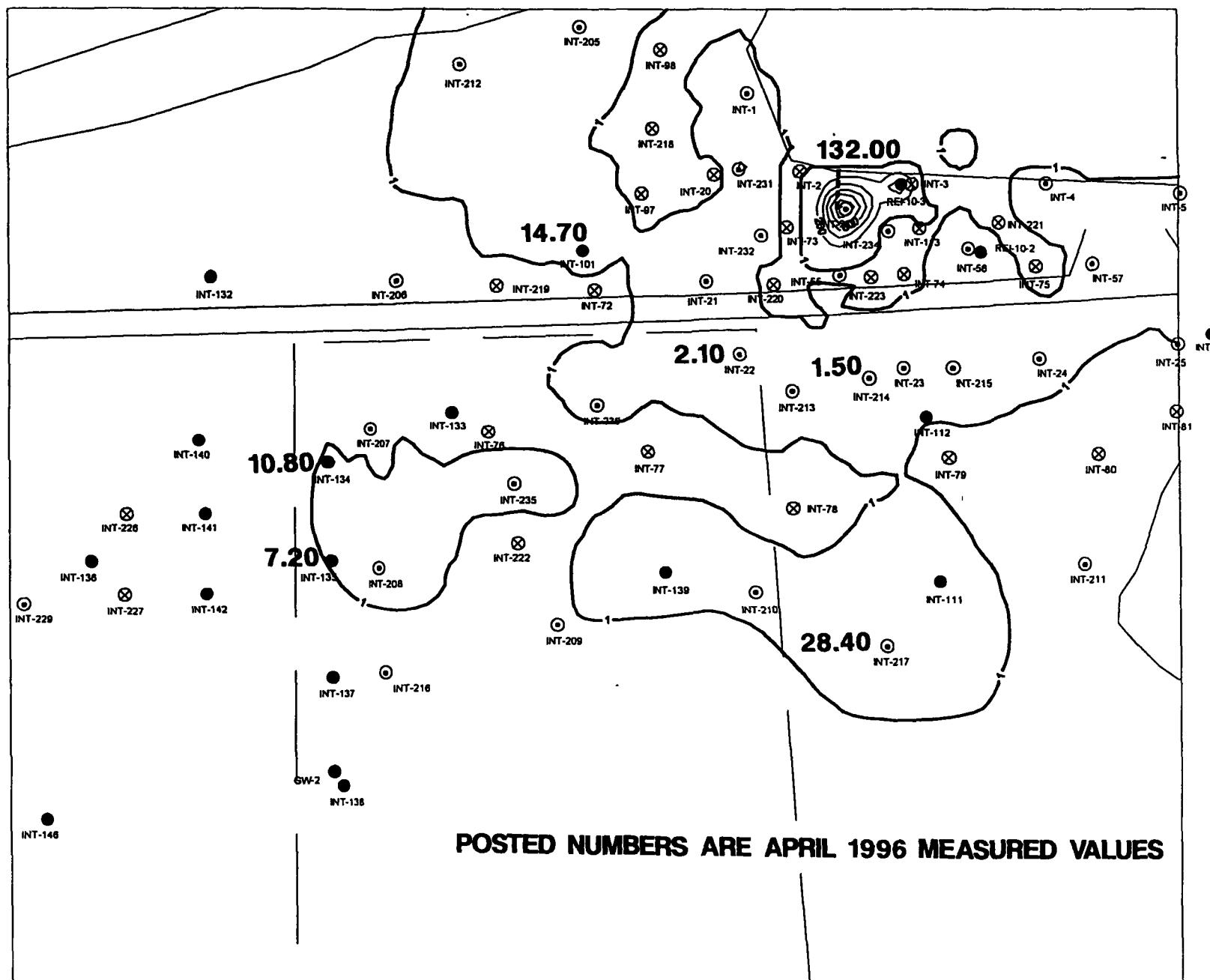
034994



POSTED NUMBERS ARE APRIL 1996 MEASURED VALUES

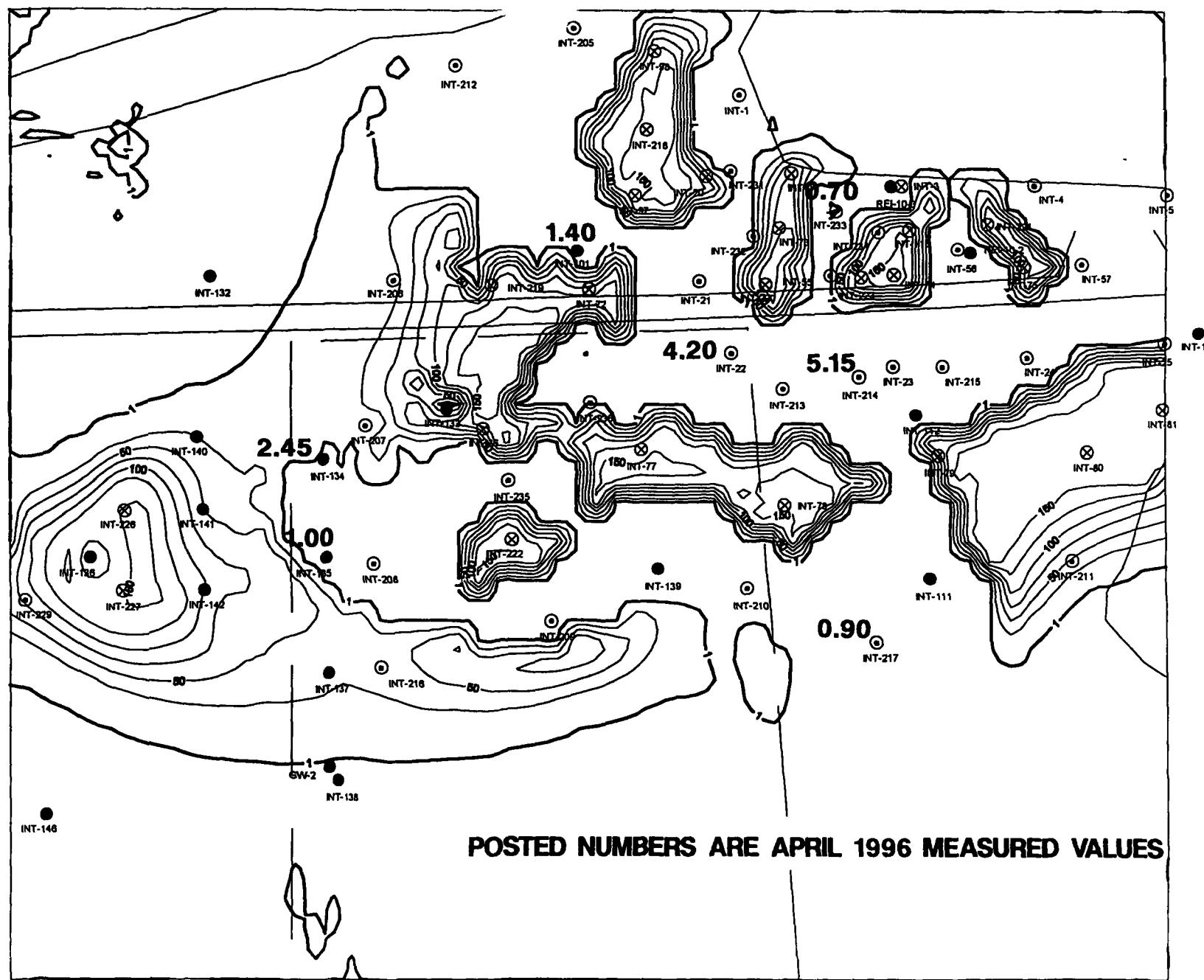
INT WEST DEMONSTRATION: TOC (ppm) 6 MONTHS

034995



INT WEST DEMONSTR ON: DO+ (ppm) 6 MONTHS

034996



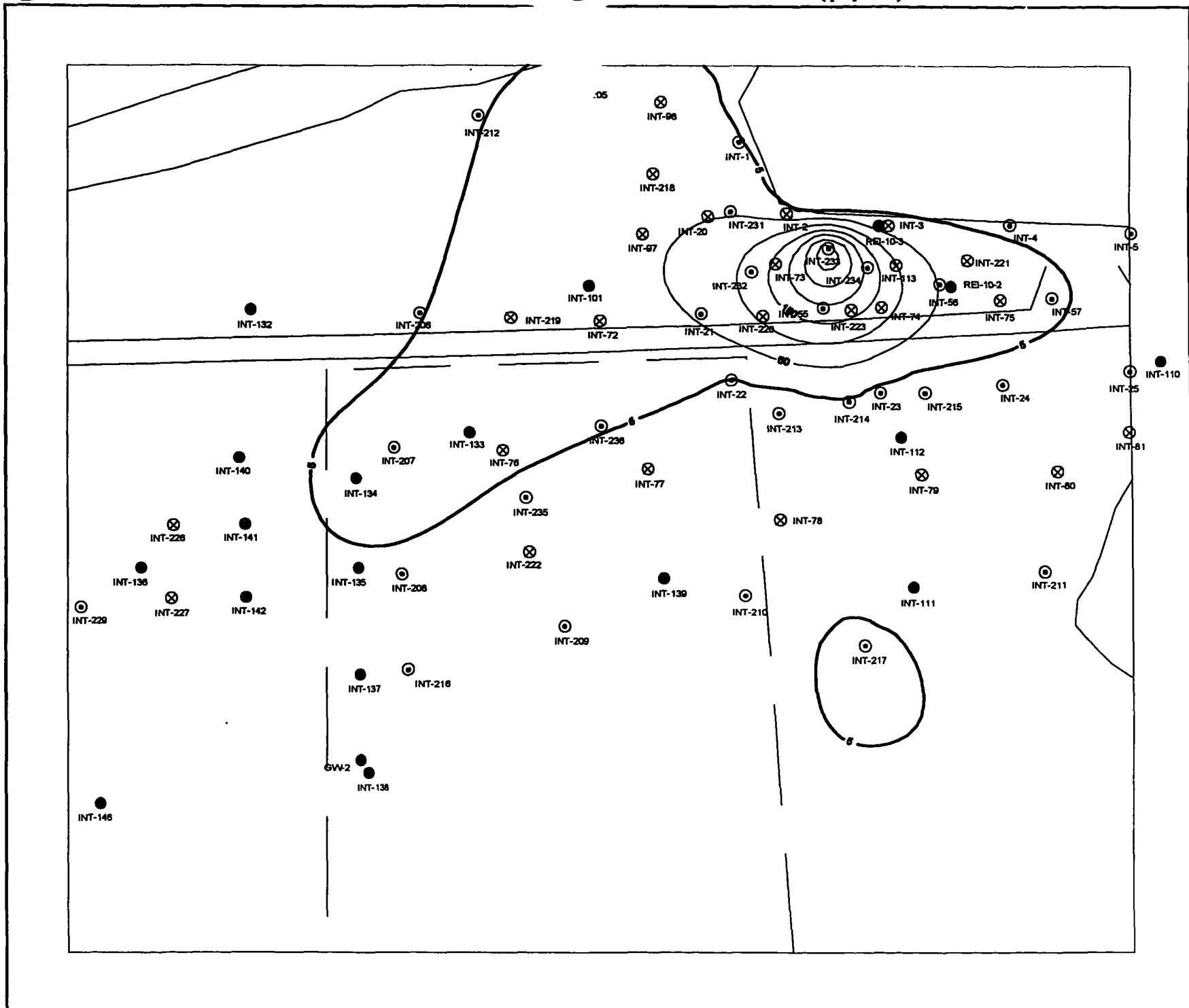
034997

INT WEST APRIL 1996 - INITIAL

INT WEST APRIL 19

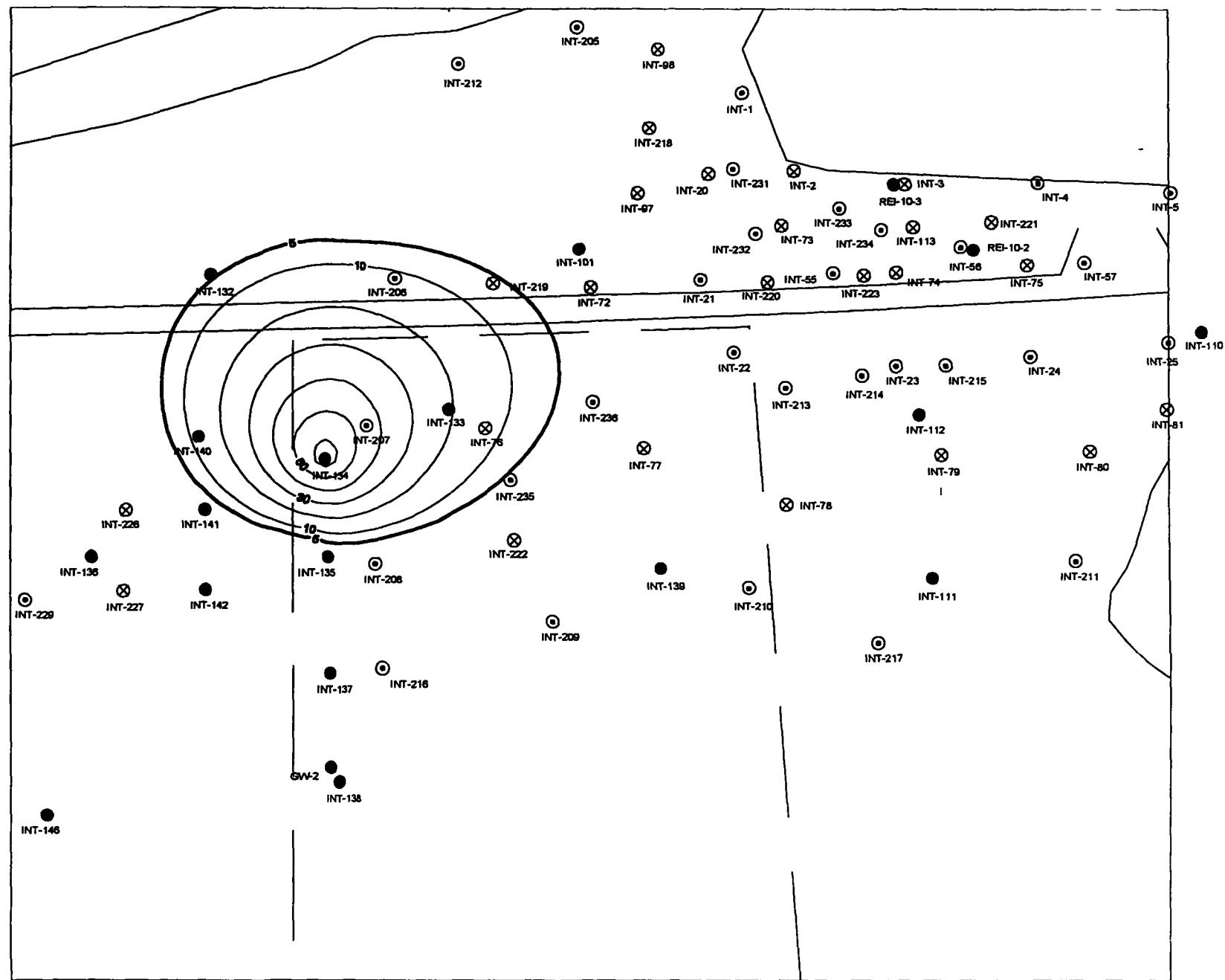
BENZENE (ppb) INITIAL

034998



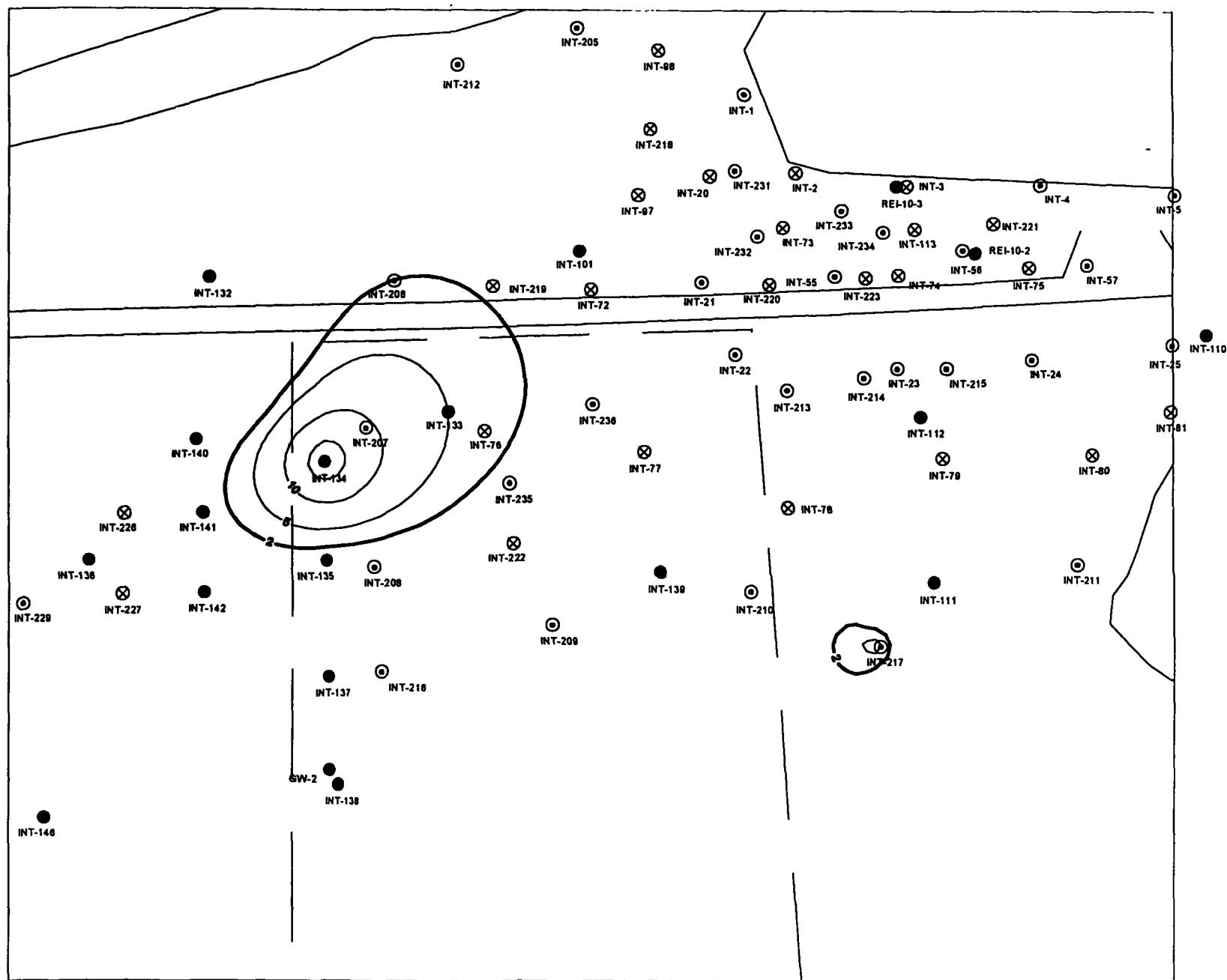
INT WEST APRIL 1990 1,2-DCA (ppb) INITIAL

034999



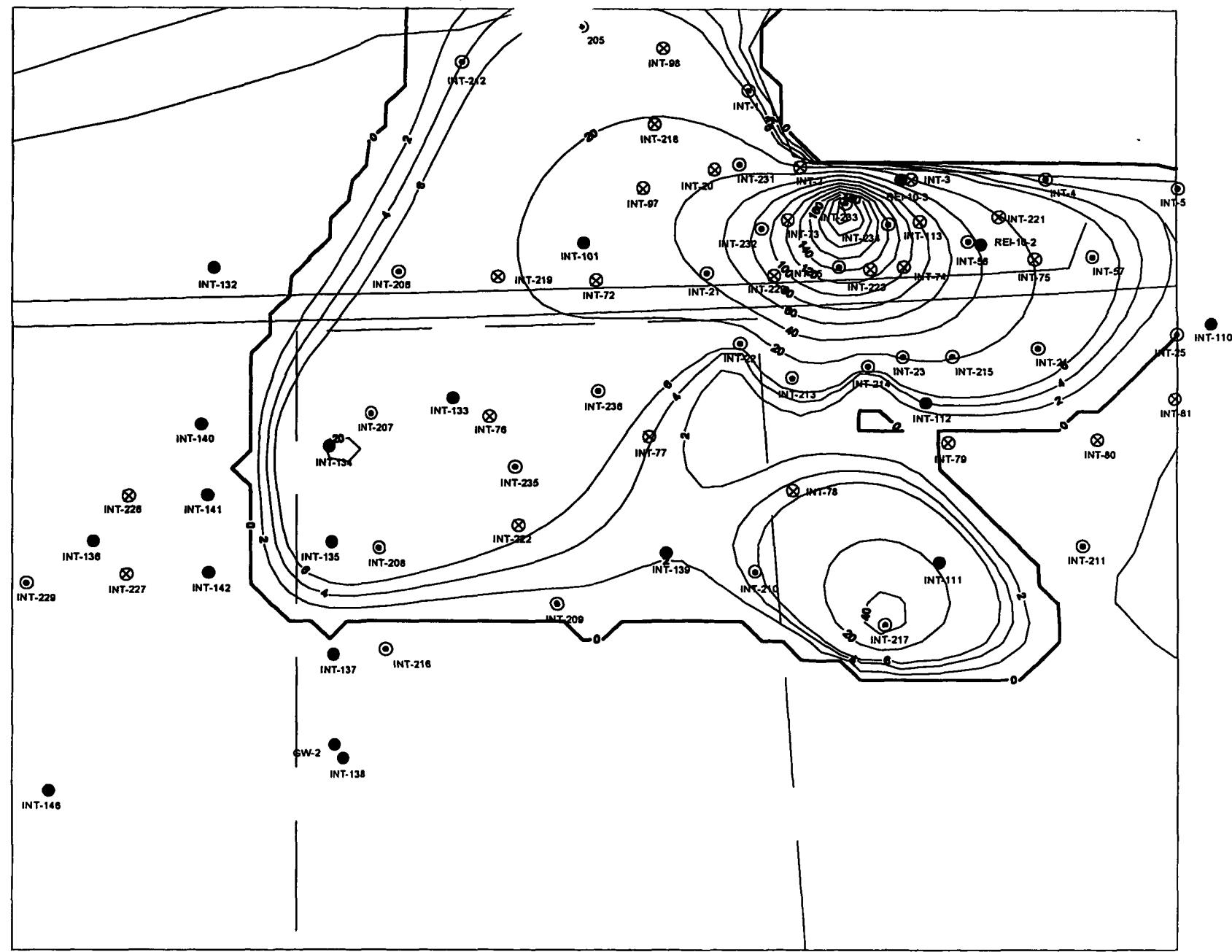
INT WEST APRIL 1996: CHLORIDE (ppb) INITIA

000000035000



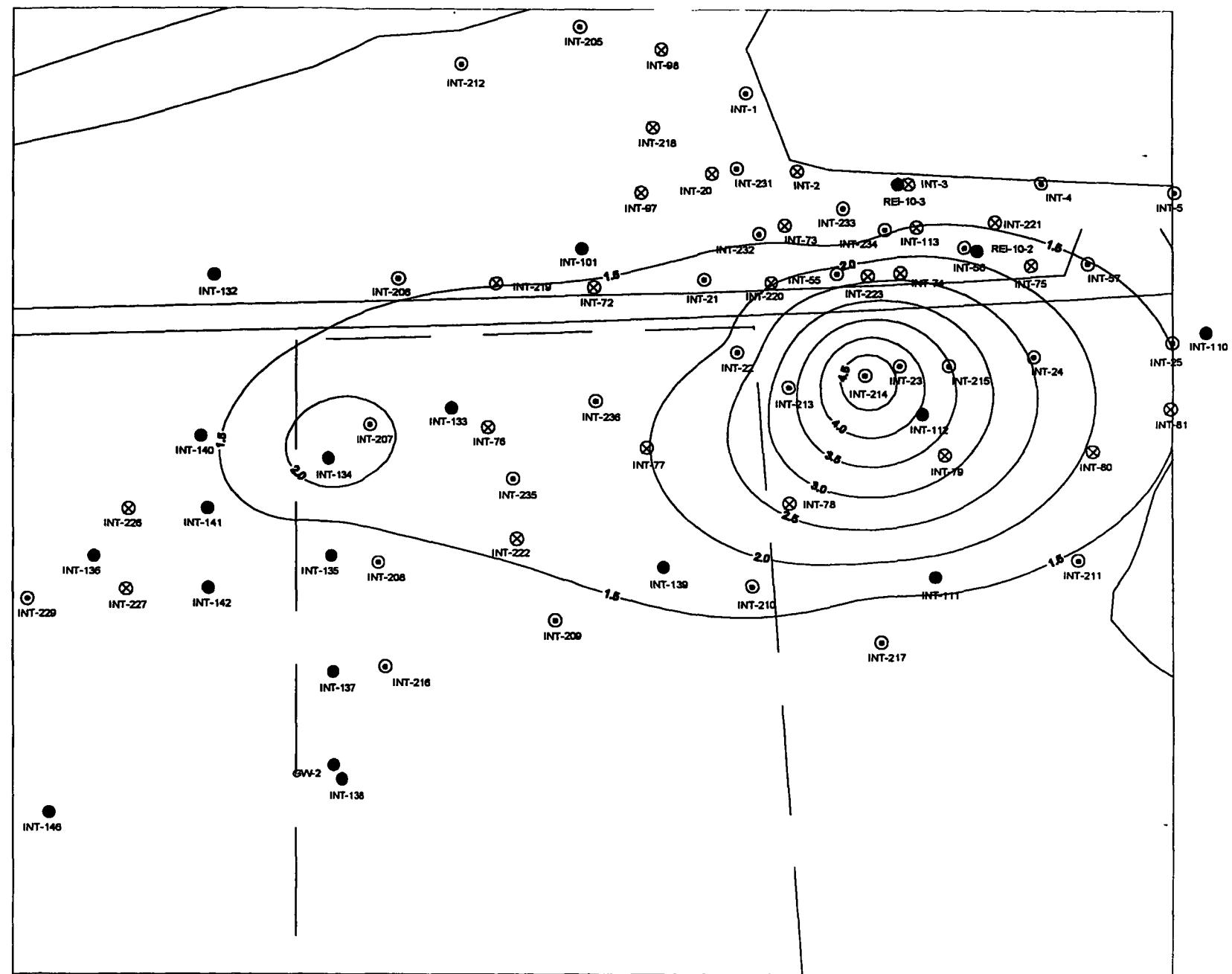
INT WEST APRIL 1985: TOC (ppm) INITIAL

035001



INT WEST APRIL 1986: DO+ (ppm) INITIAL

035002

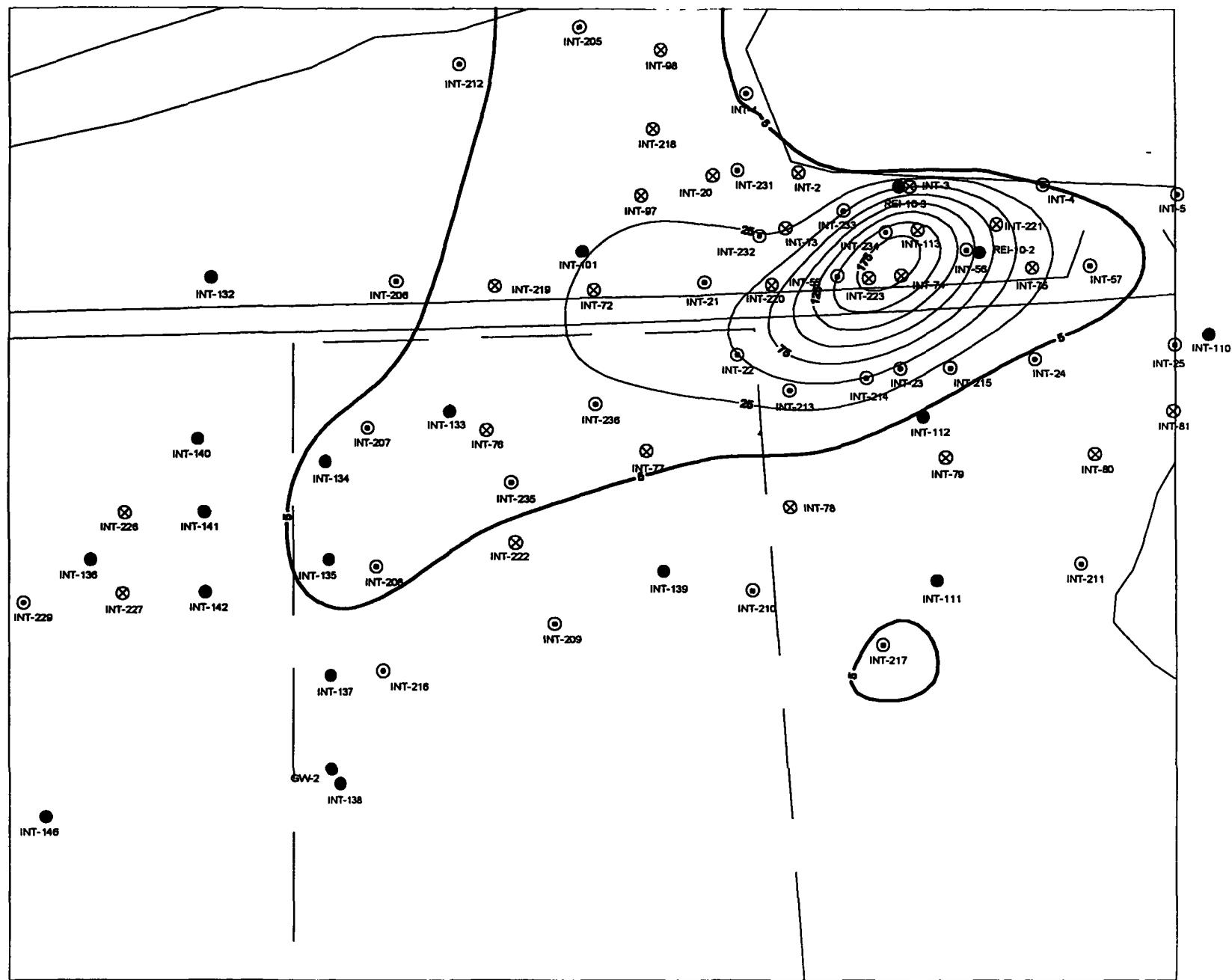


035003

INT WEST APRIL 1996 - 9.5 YEARS

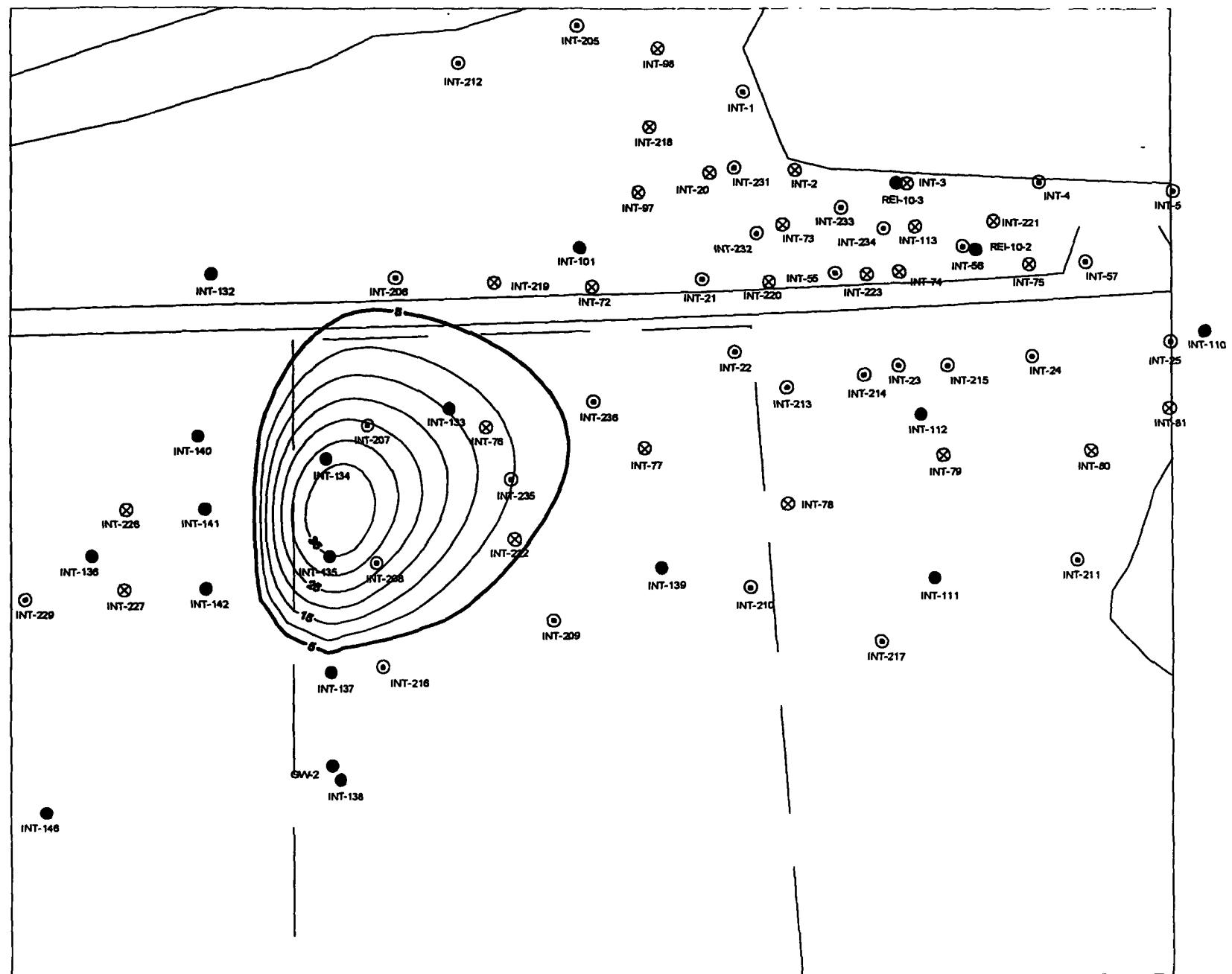
INT WEST APRIL 1996: BENZENE (ppb) 9.5 YEARS

035004



INT WEST APRIL 1996, 2-DCA (ppb) 9.5 YEARS

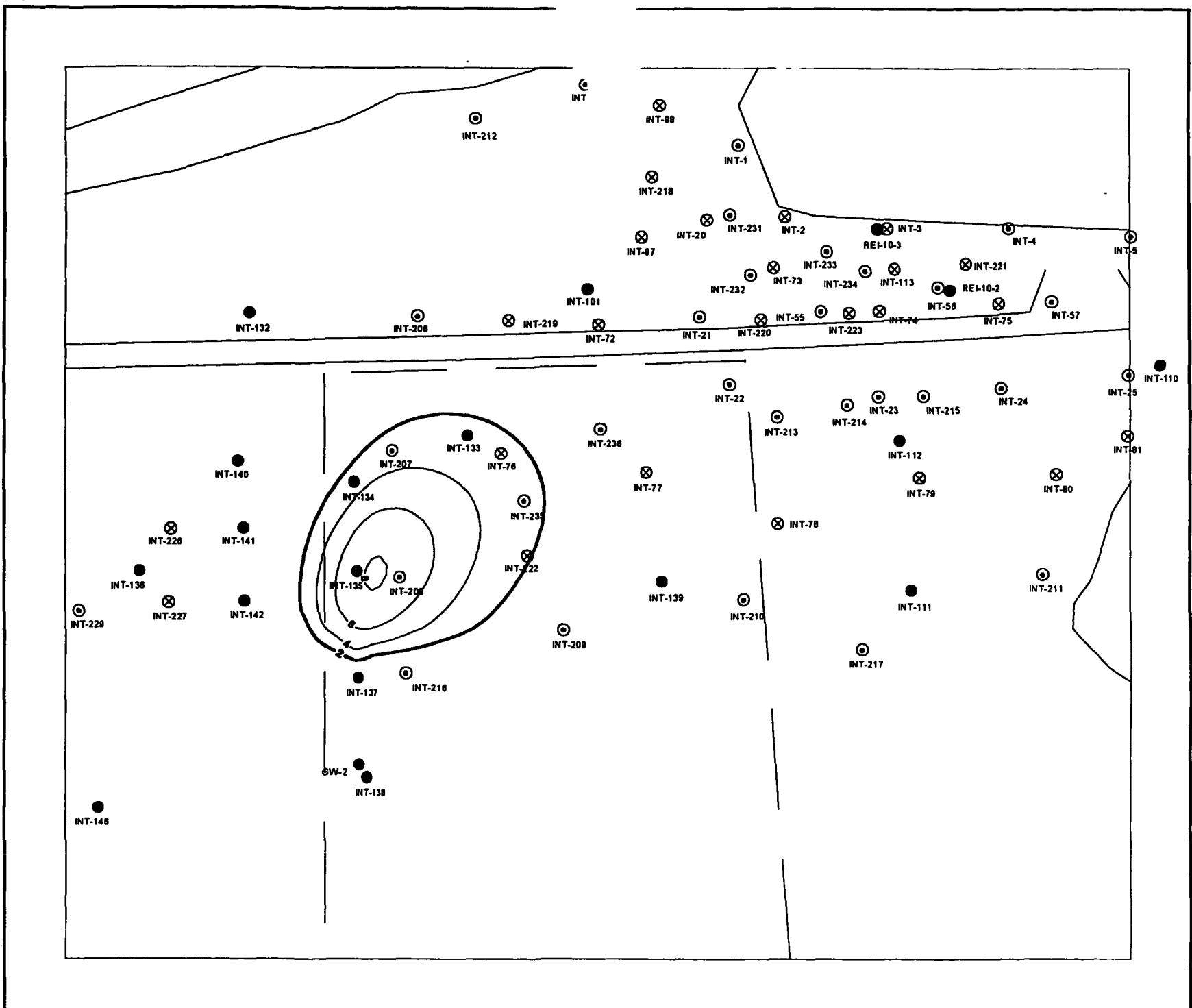
035005



INT WEST APRIL 1996: VIN

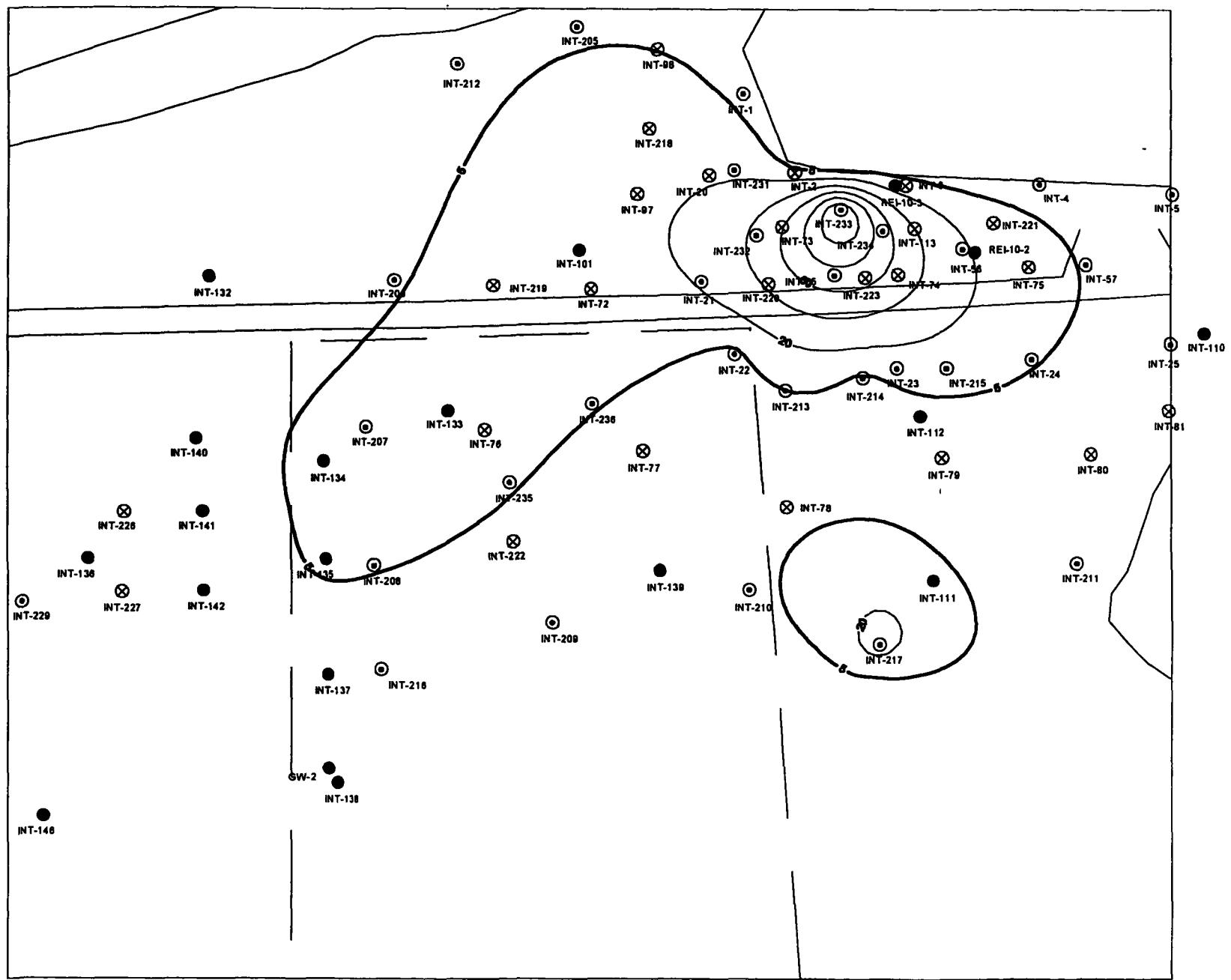
CHLORIDE (ppb) 9.5 YEAR

035006



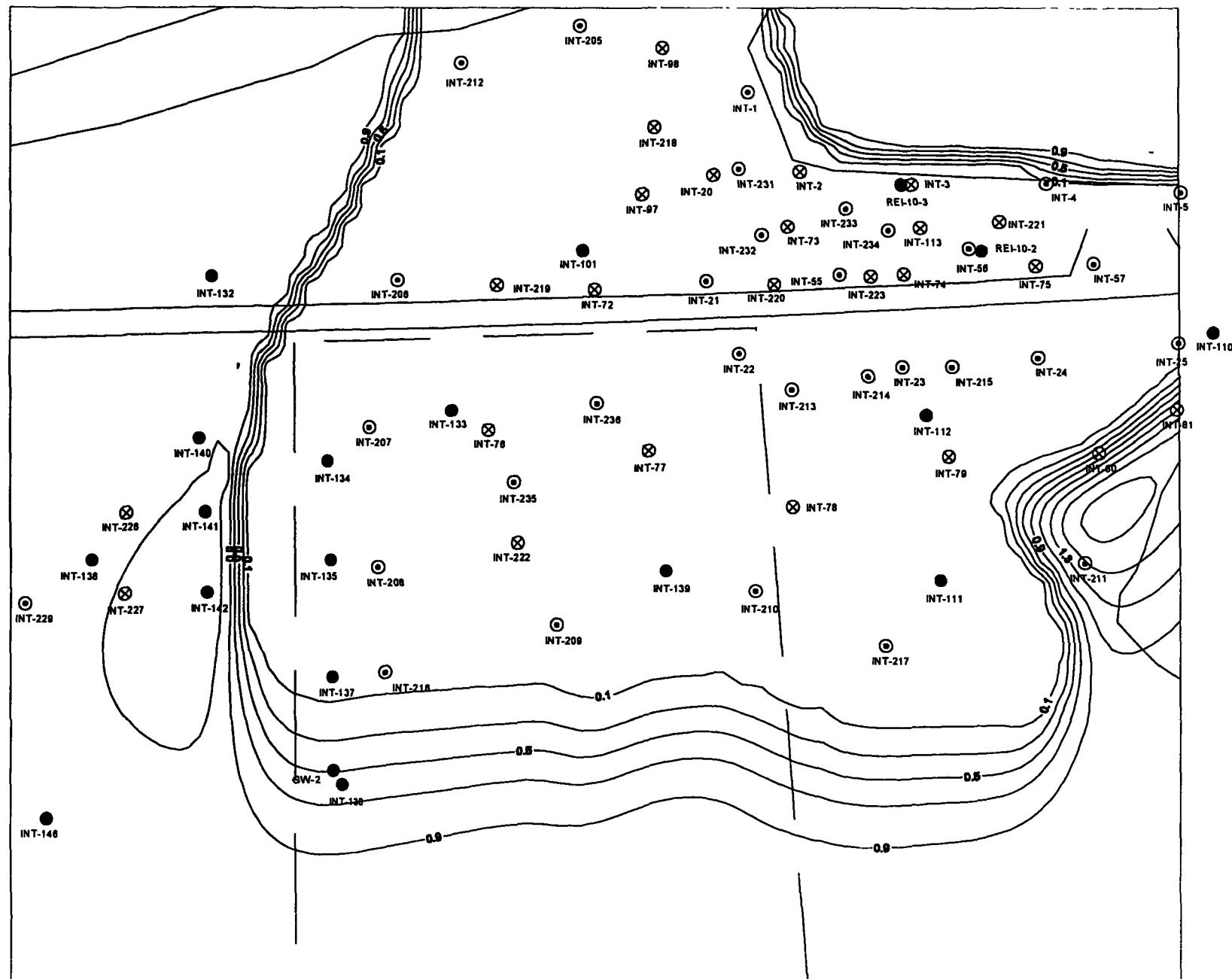
INT WEST APRIL 1980 TOC (ppm) 9.5 YEARS

035007



INT WEST APRIL 1986: DO+ (ppm) 9.5 YEARS

035008

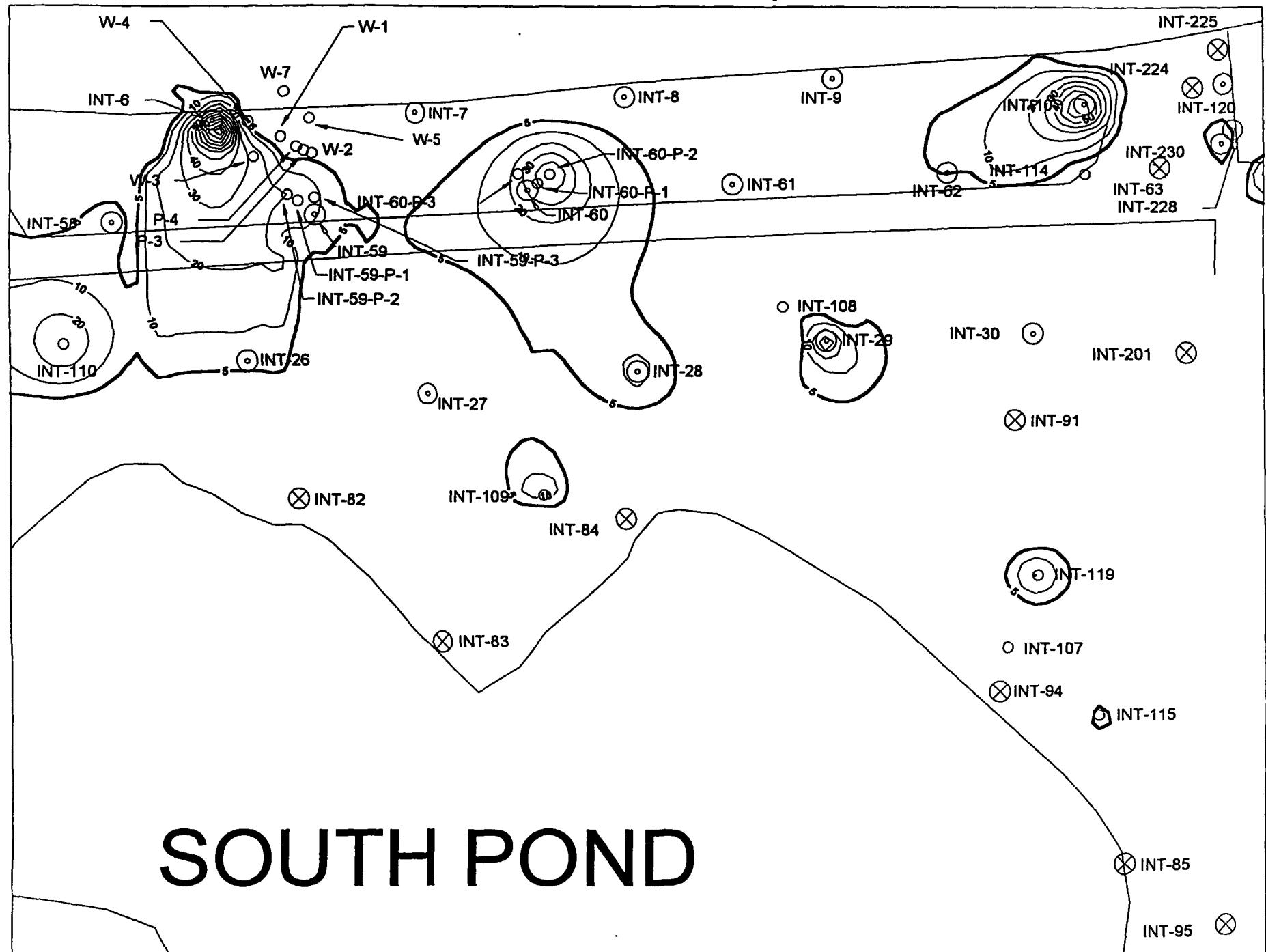


035009

INT CENTRAL DEMONSTRATION - INITIAL

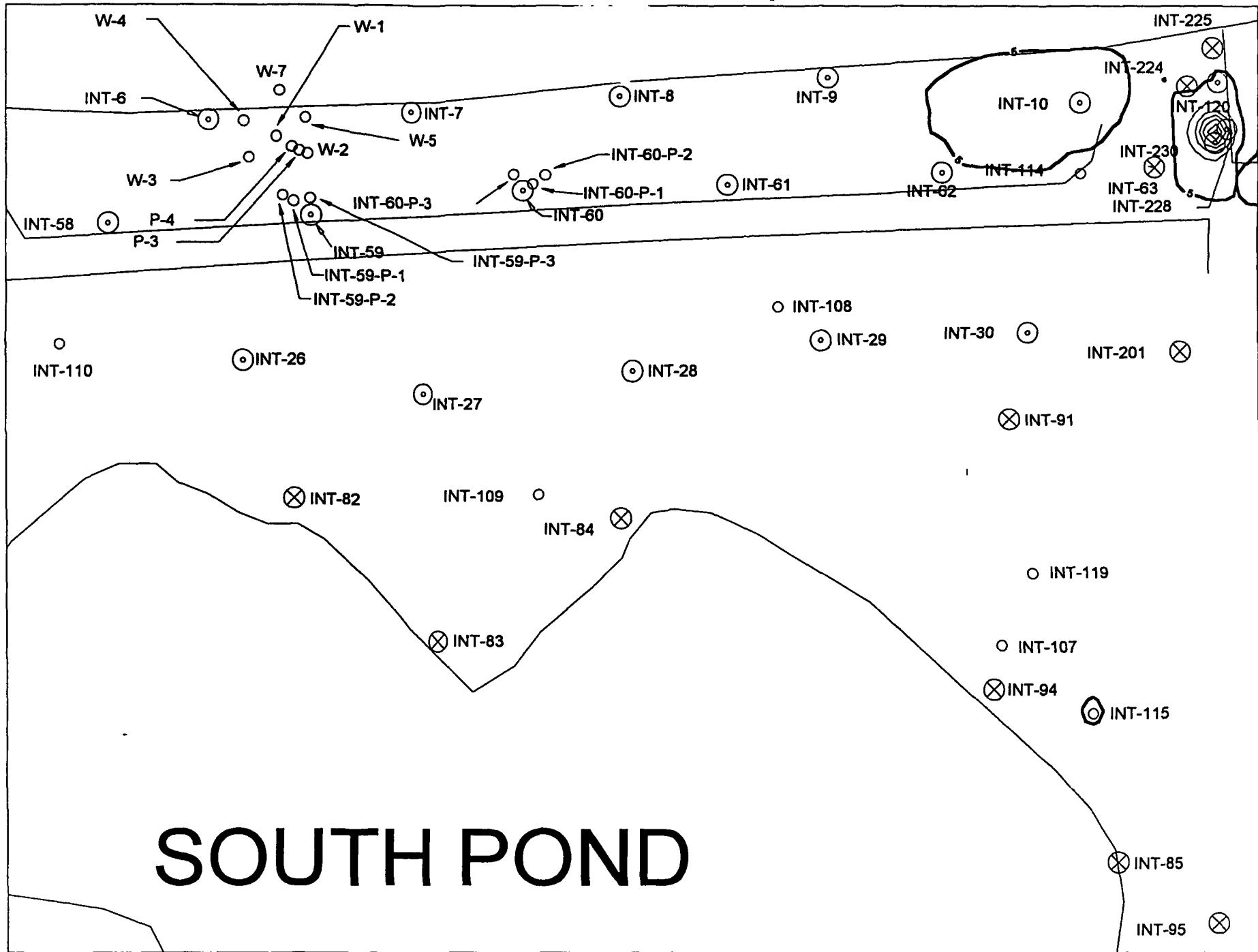
INT CENTRAL DEMONSTRATION: BENZENE (ppb) INITIAL

035010



INT CENTRAL DEMONSTRATION: 1,2-DCA (ppb) INITIALE

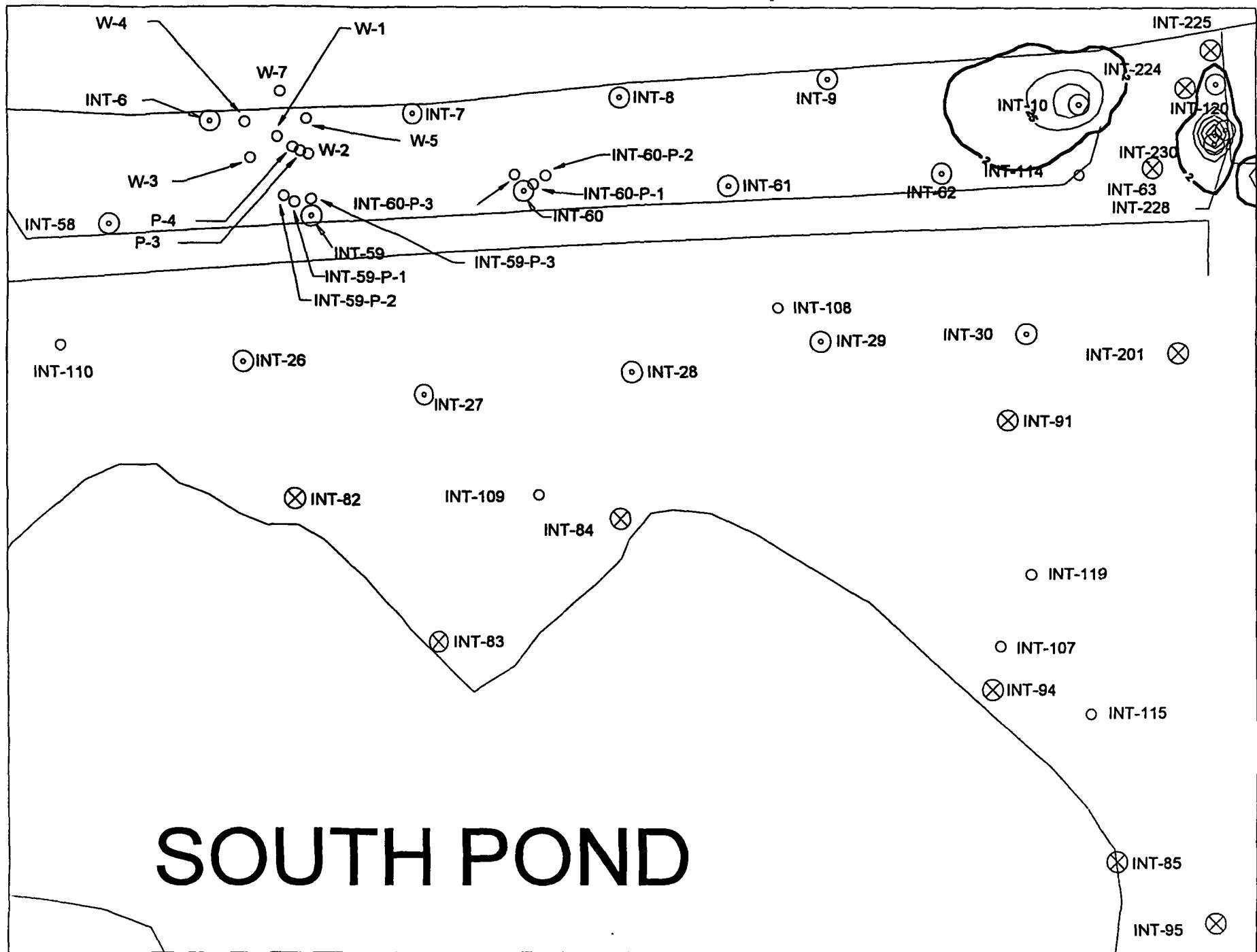
035011



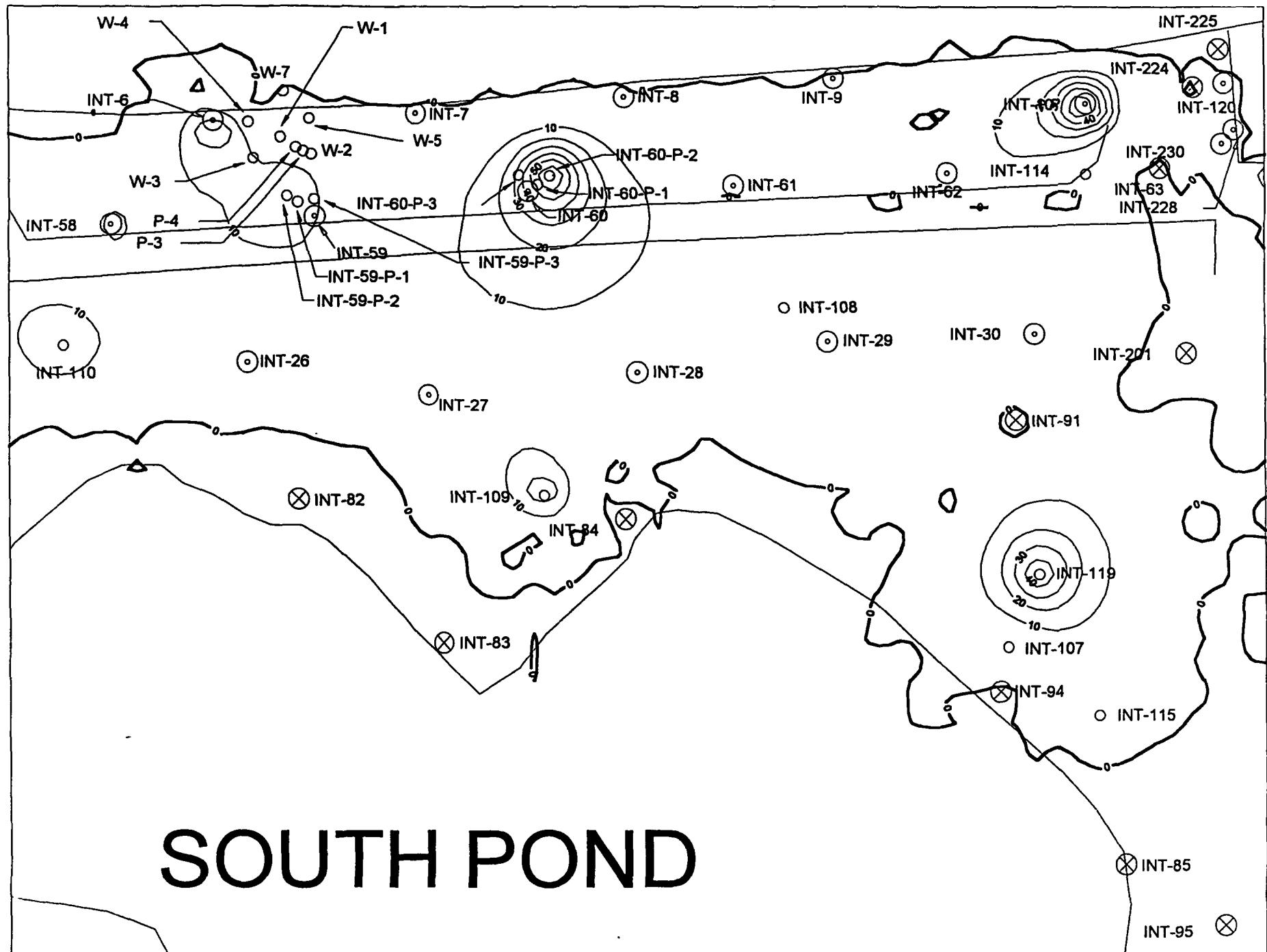
SOUTH POND

INT CENTRAL DEMONSTRATION. VINYL CHLORIDE (ppb) INITIAL

035012



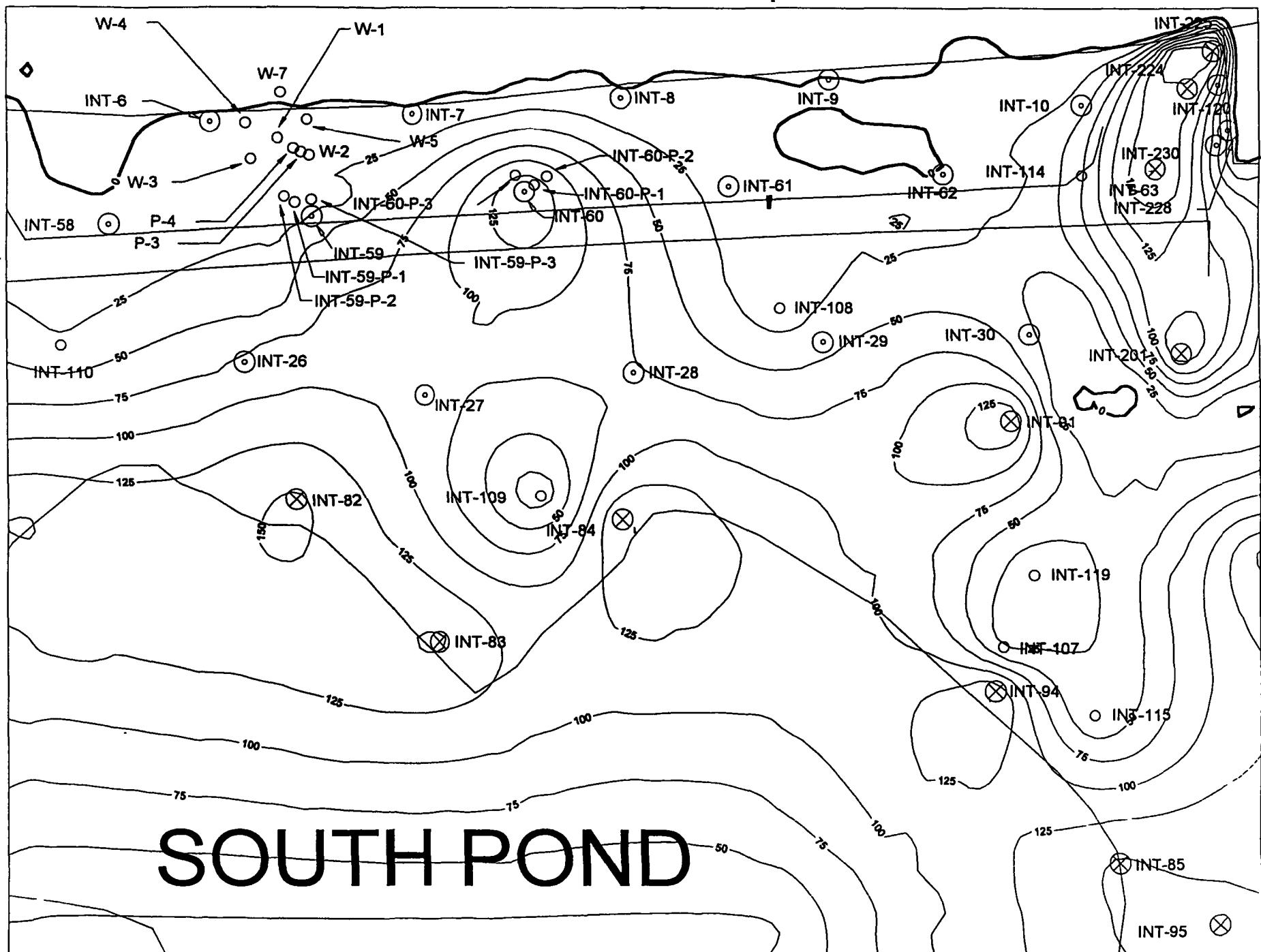
INT CENTRAL DEMONSTRATION: TOC (ppm) INITIAL



035013

INT CENTRAL DEMONSTRATION: DO+ (ppm) INITIAL

035014



035015

INT CENTRAL DEMONSTRATION - 6 MONTHS

035016

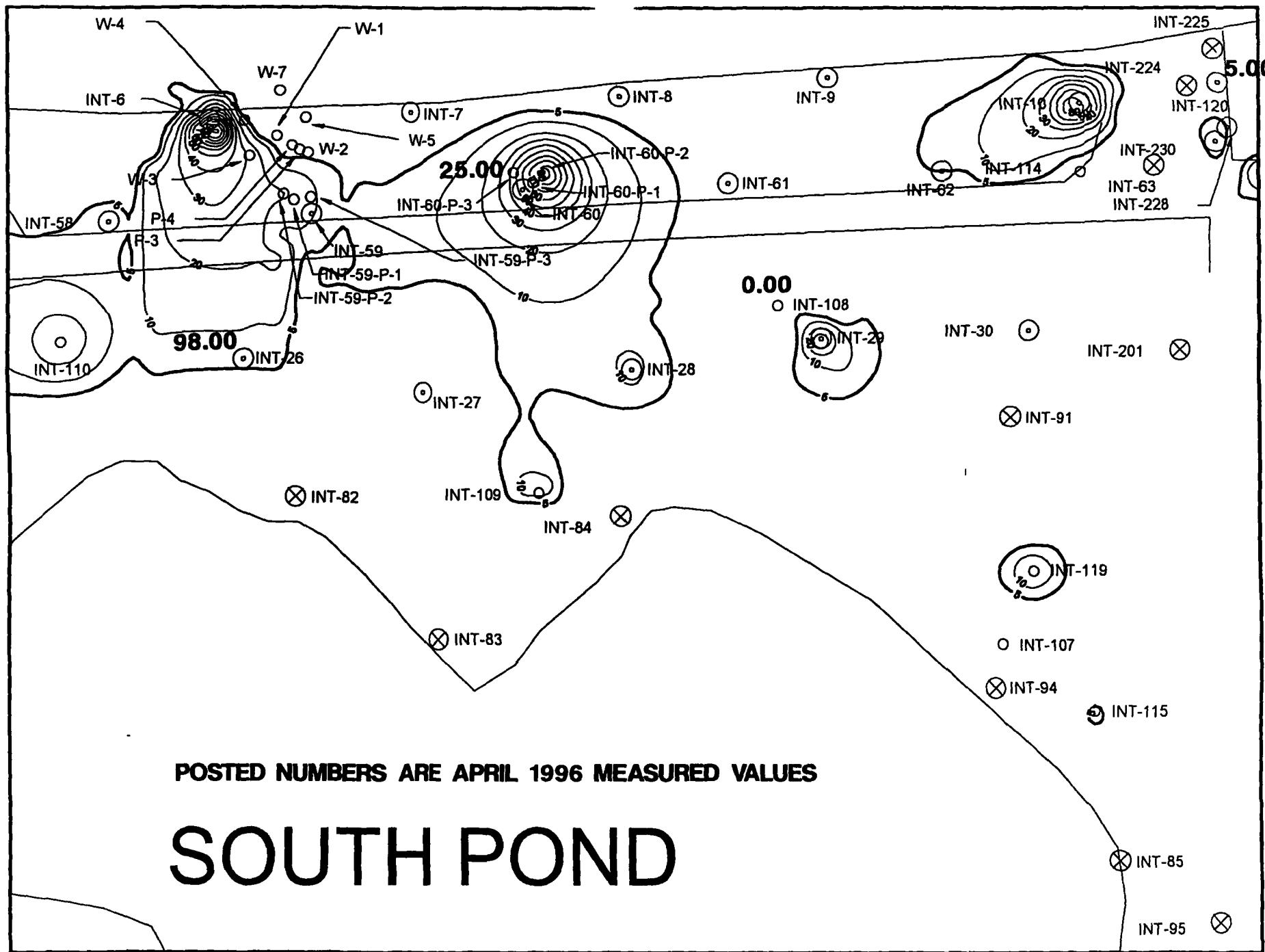
INT CENTRAL AREA: MEASURED VERSUS MODELED CONCENTRATIONS
DEMONSTRATION RUN - 6 MONTHS
APRIL 1996

Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO+NO3 (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
INT-60-P-3	25.00	33.28	0.00	0.00	0.00	0.00	1.10	12.28	295.00	0.00
INT-026	98.00	6.28	0.00	0.00	0.00	0.00	23.70	1.44	1.20	0.00
INT-120	5.00	2.71	21.00	487.18	0.00	8.93	2.20	1.55	58.25	0.01
INT-108	0.00	1.02	0.00	0.00	0.00	0.00	2.80	2.68	4.50	0.00

INT CENTRAL DEMONSTR

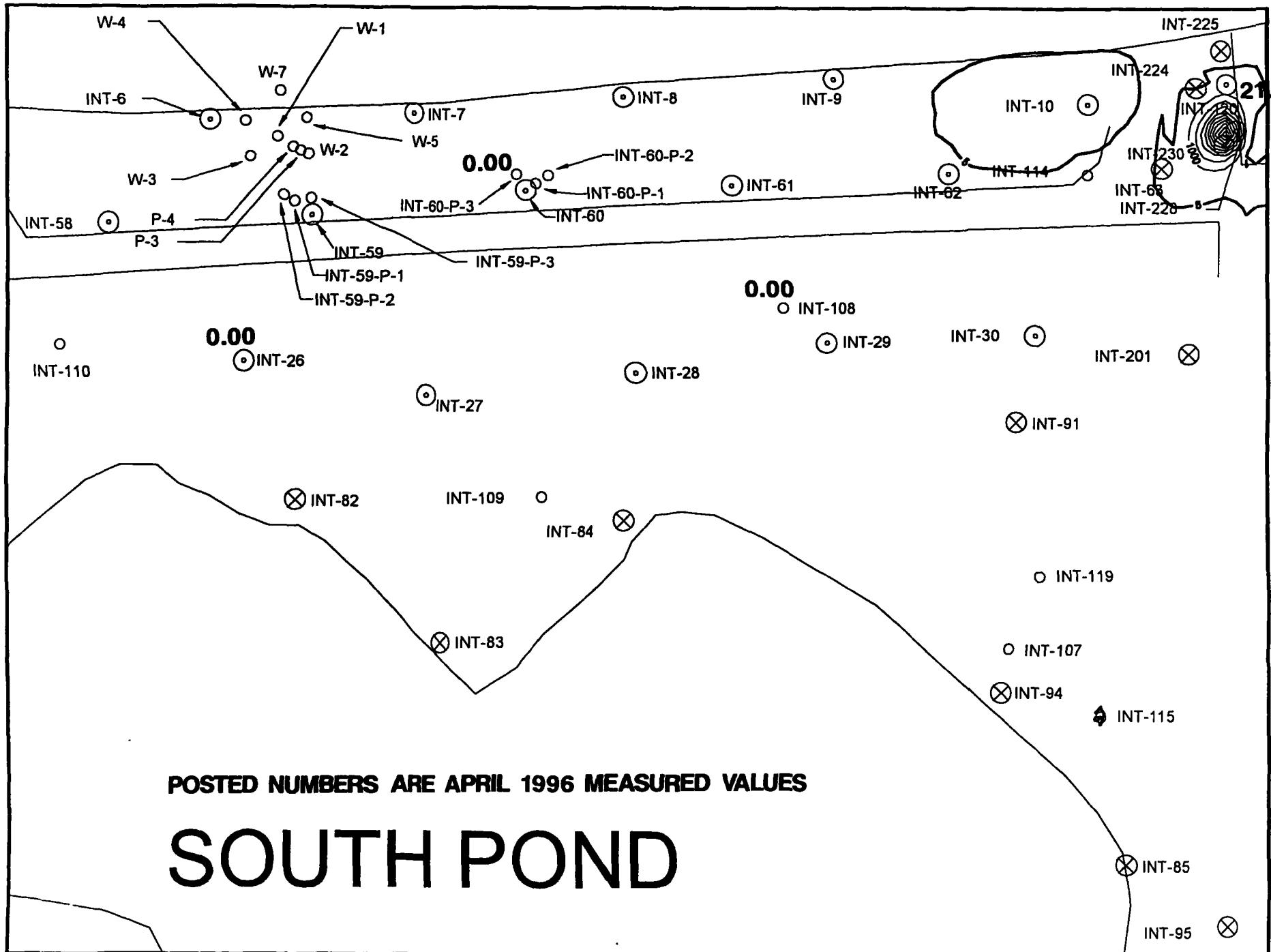
N: BENZENE (ppb) 6 MONTHS

210501



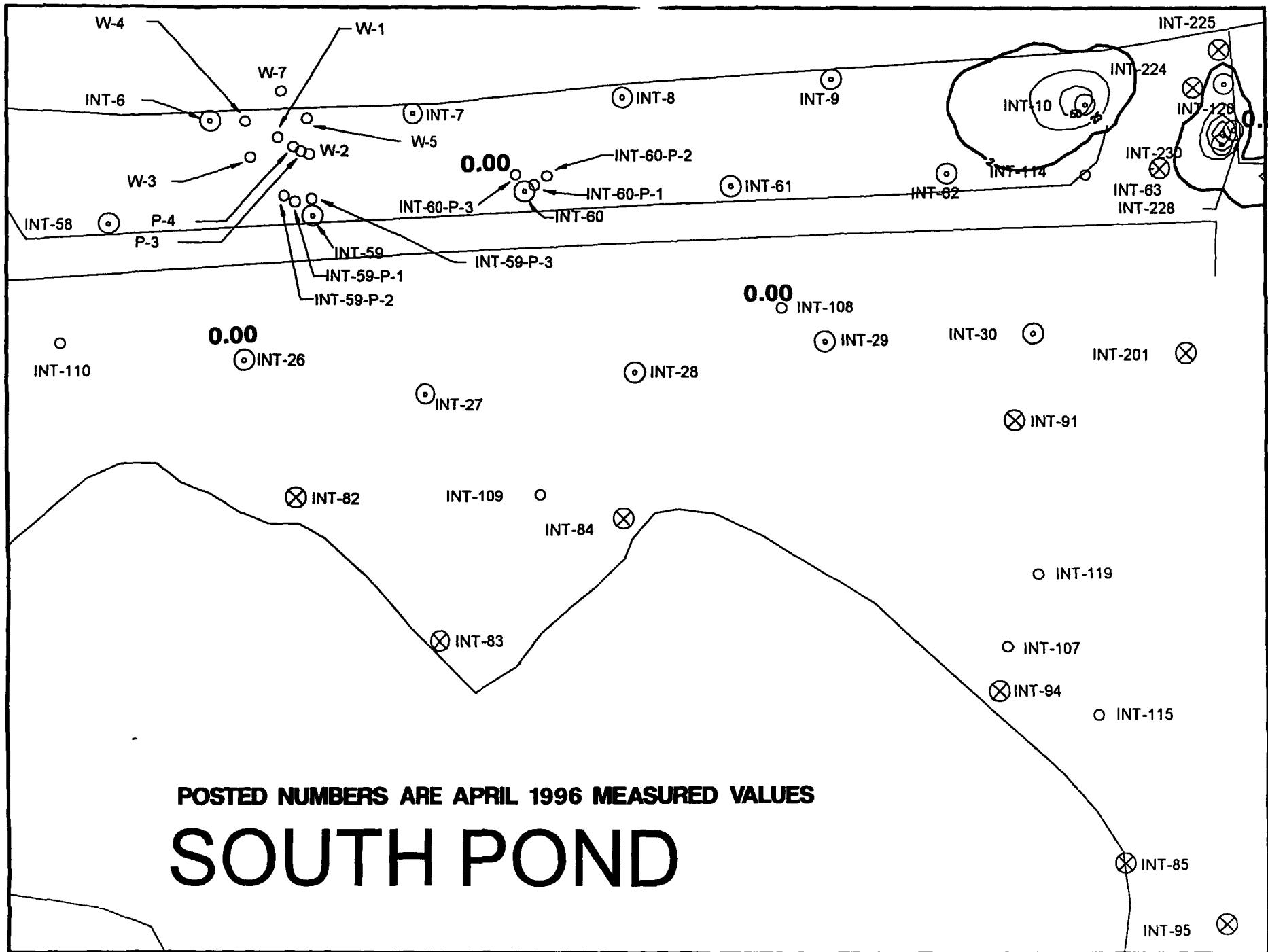
INT CENTRAL DEMONSTRATION: 1,2-DCA (ppb) 6 MONTHS

035018



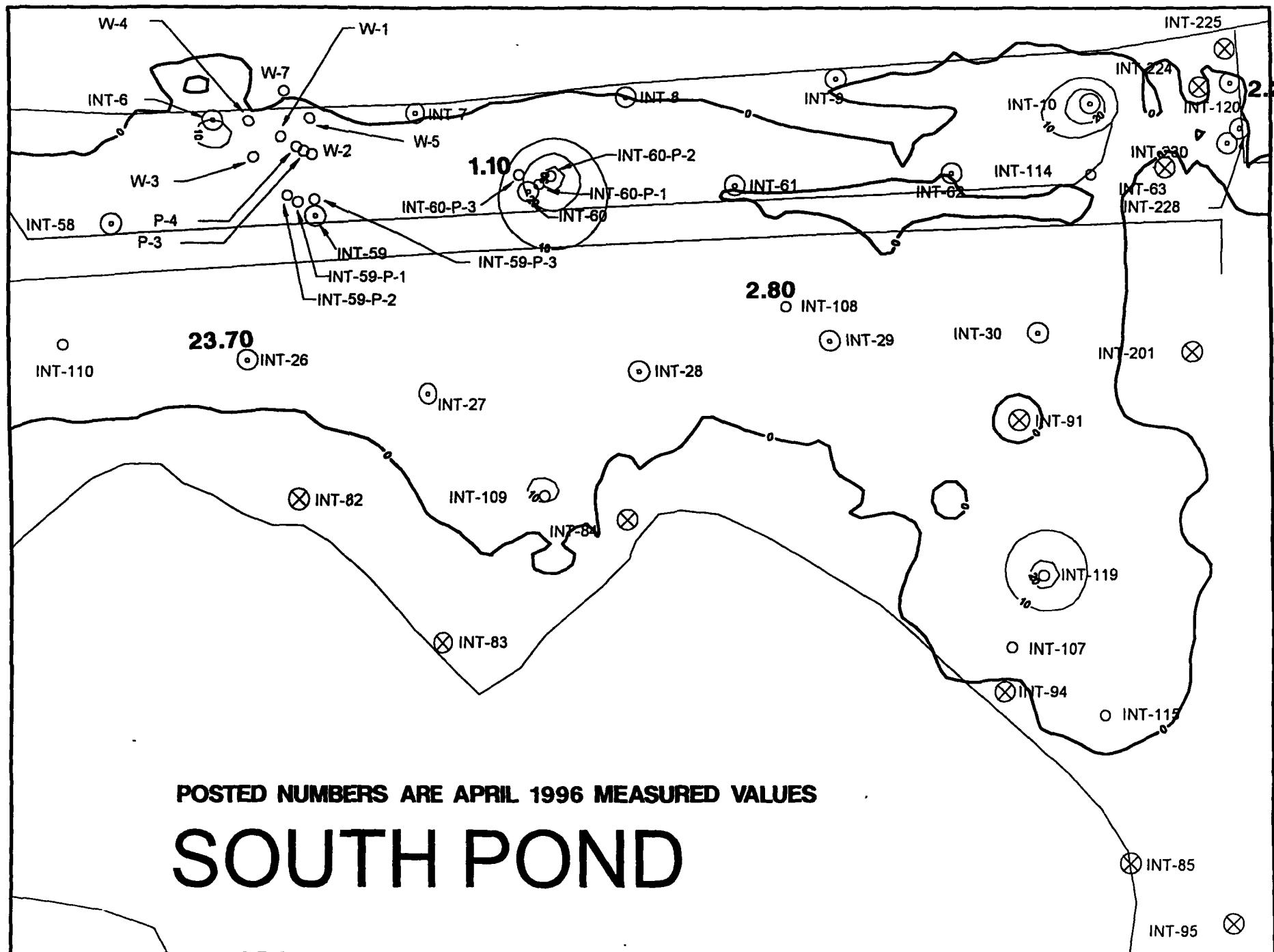
INT CENTRAL DEMONSTRATION JYL CHLORIDE (ppm) 6 MONTHS

035019



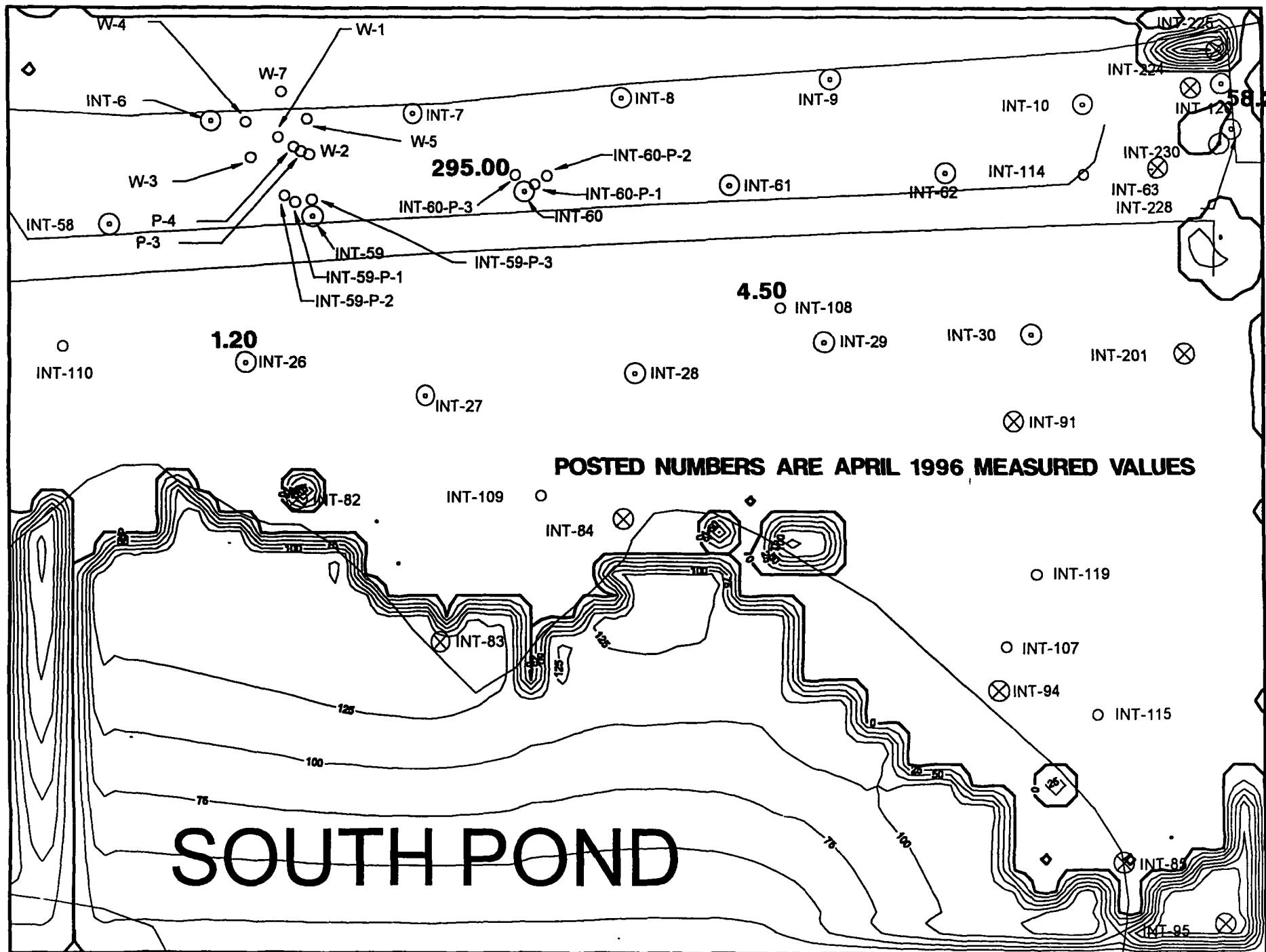
035020

INT CENTRAL DEMONSTRATION: TOC (ppm) 6 MONTHS



035021

INT CENTRAL DEMONSTR. ON: DO+ (ppm) 6 MONTHS

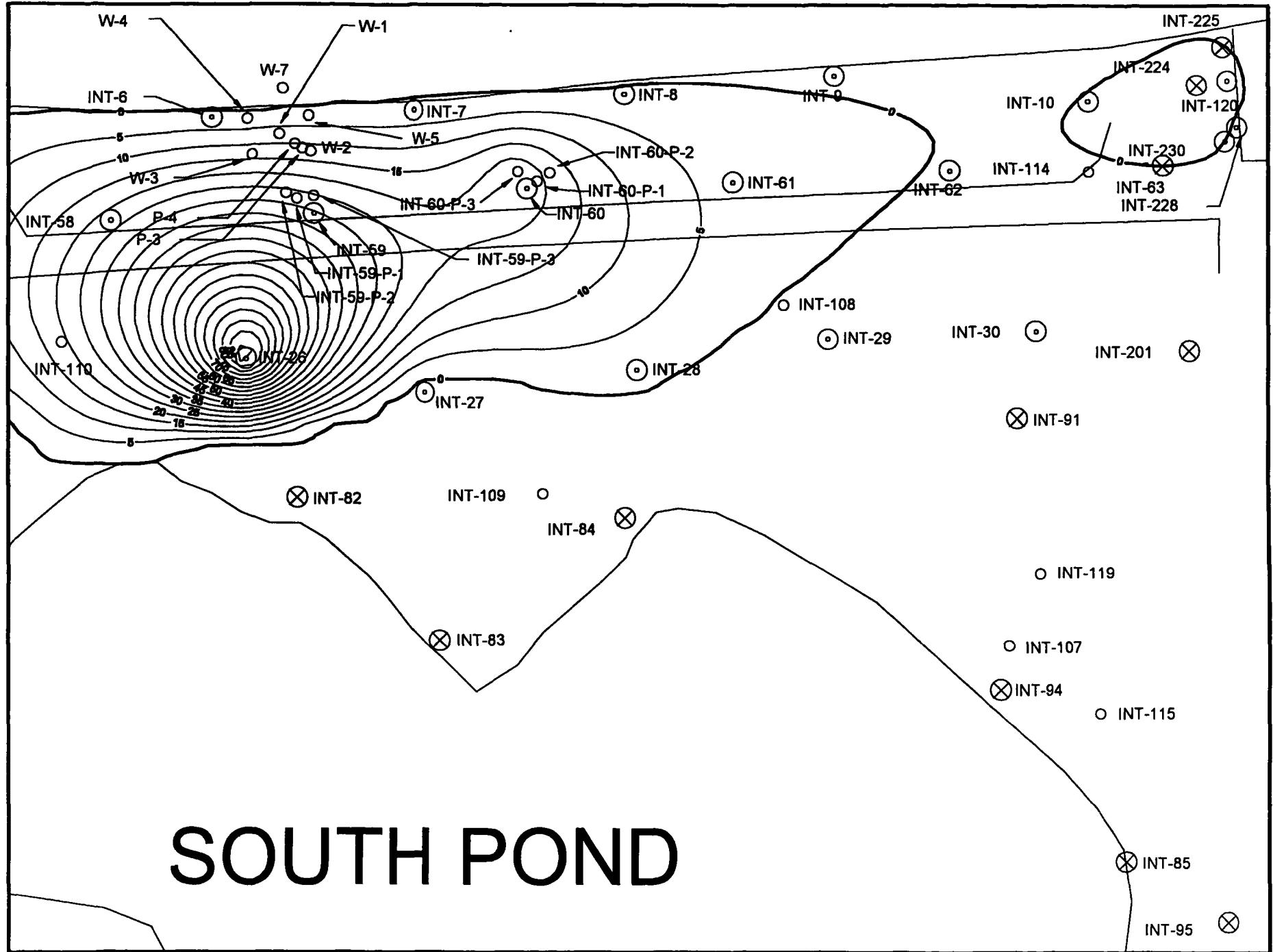


035022

INT CENTRAL APRIL 1996 - INITIAL

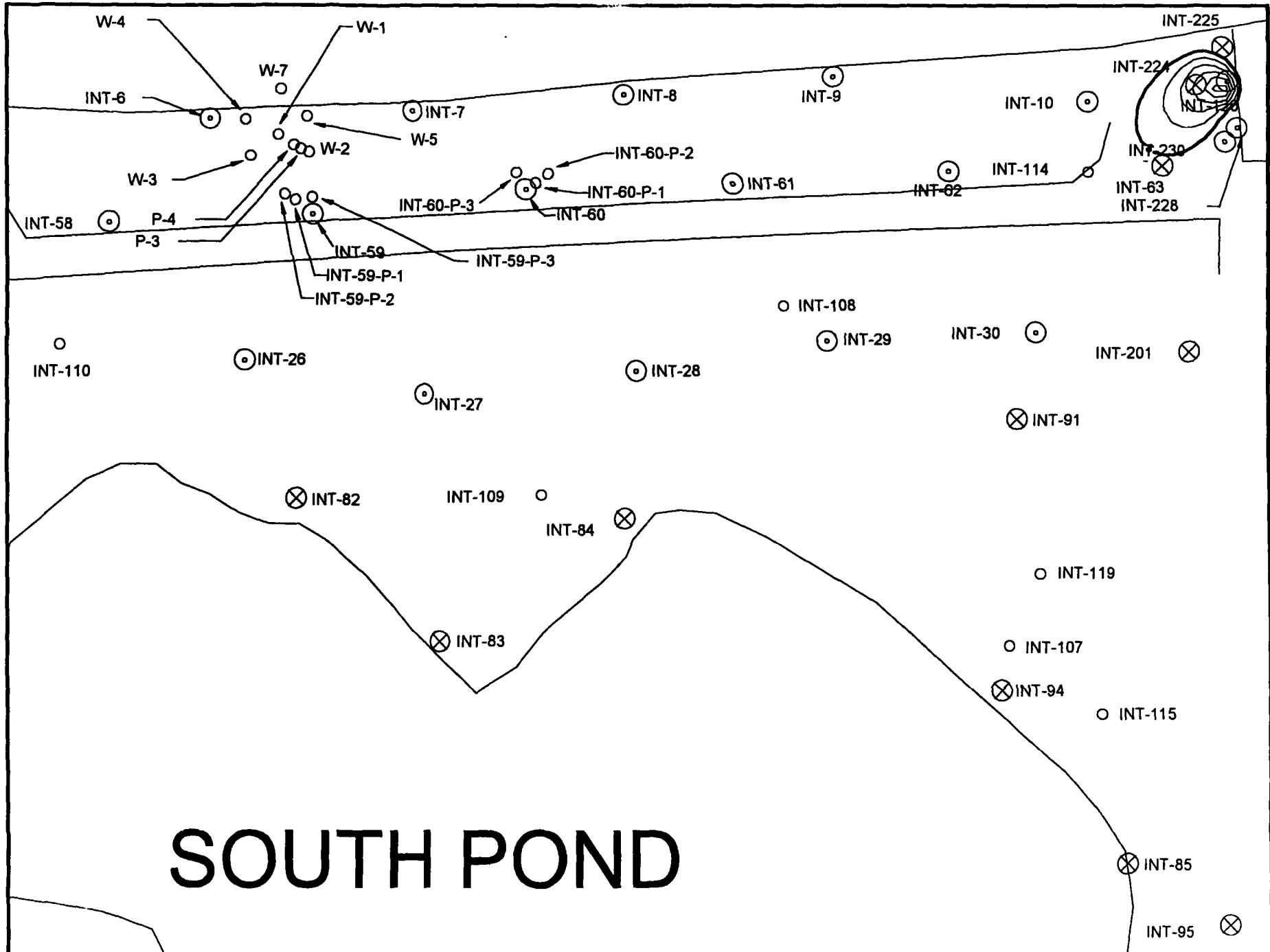
035023

INT CENTRAL APRIL 1990: BENZENE (ppb) INITIAL



035024

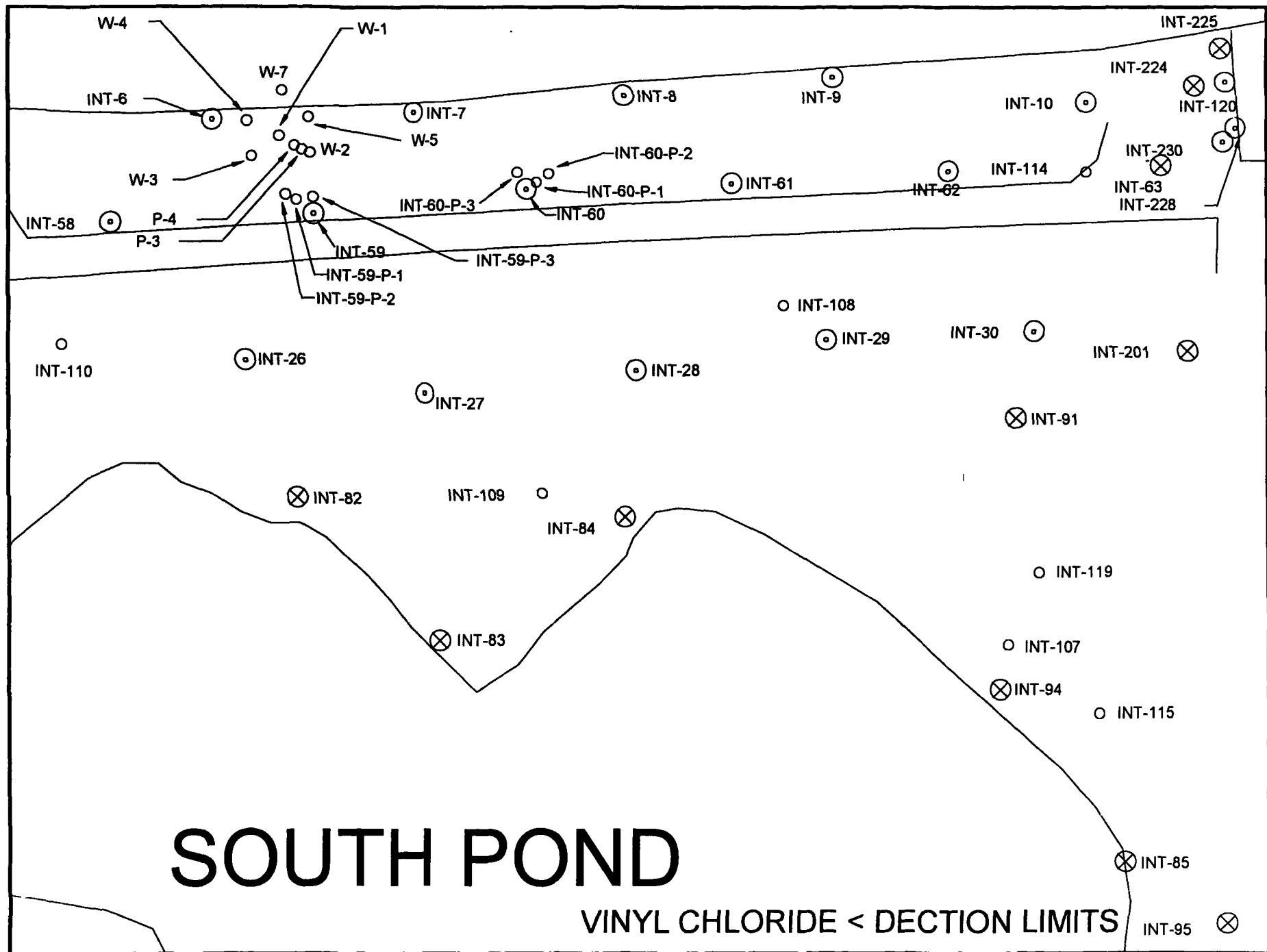
INT CENTRAL APRIL 1996: 1,2-DCA (ppb) INITIAL



SOUTH POND

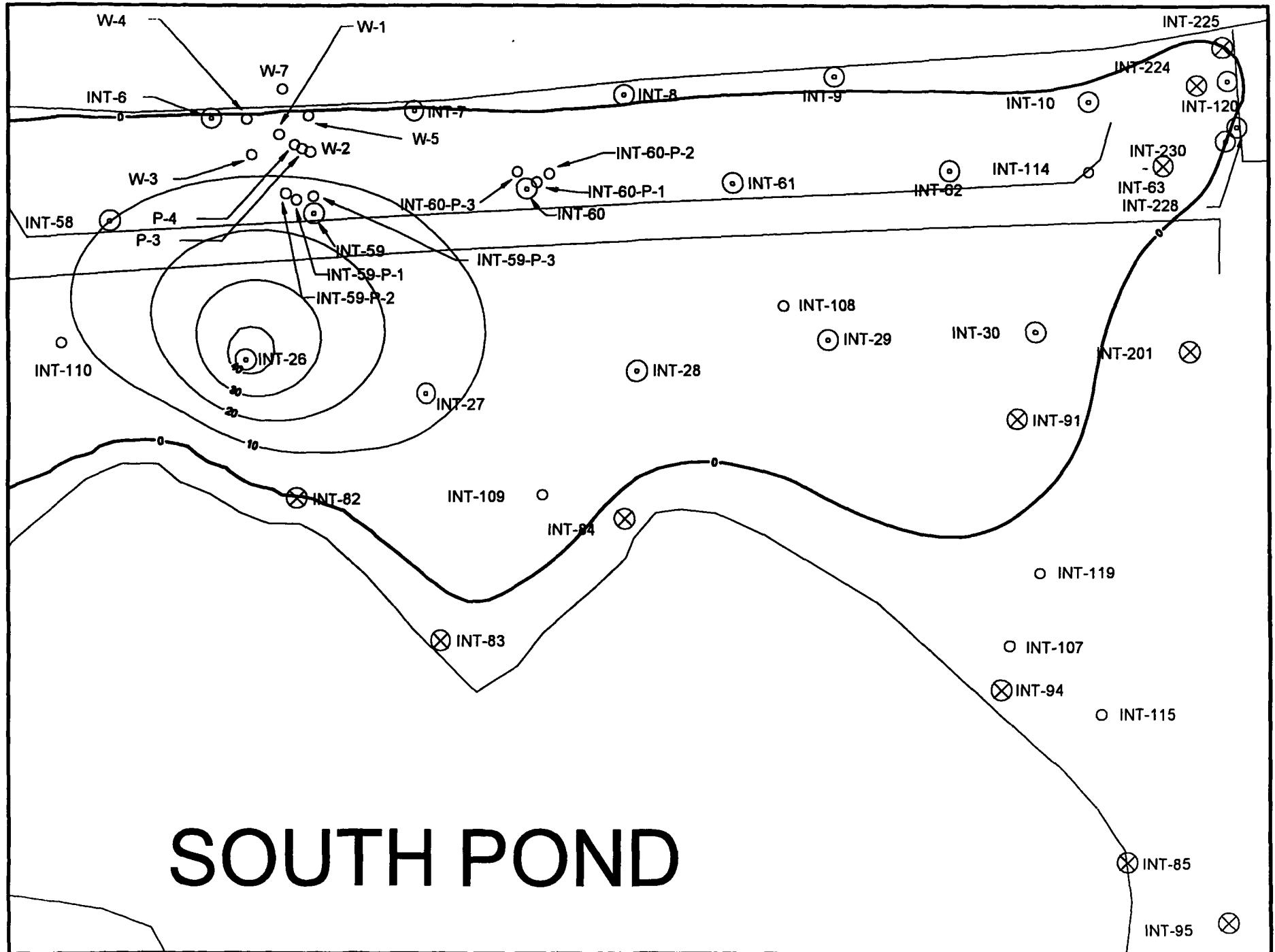
035025

INT CENTRAL APRIL 1996: VINYL CHLORIDE (ppb) INITIAL



035026

INT CENTRAL APRIL 1996: Tc . (ppm) INITIAL

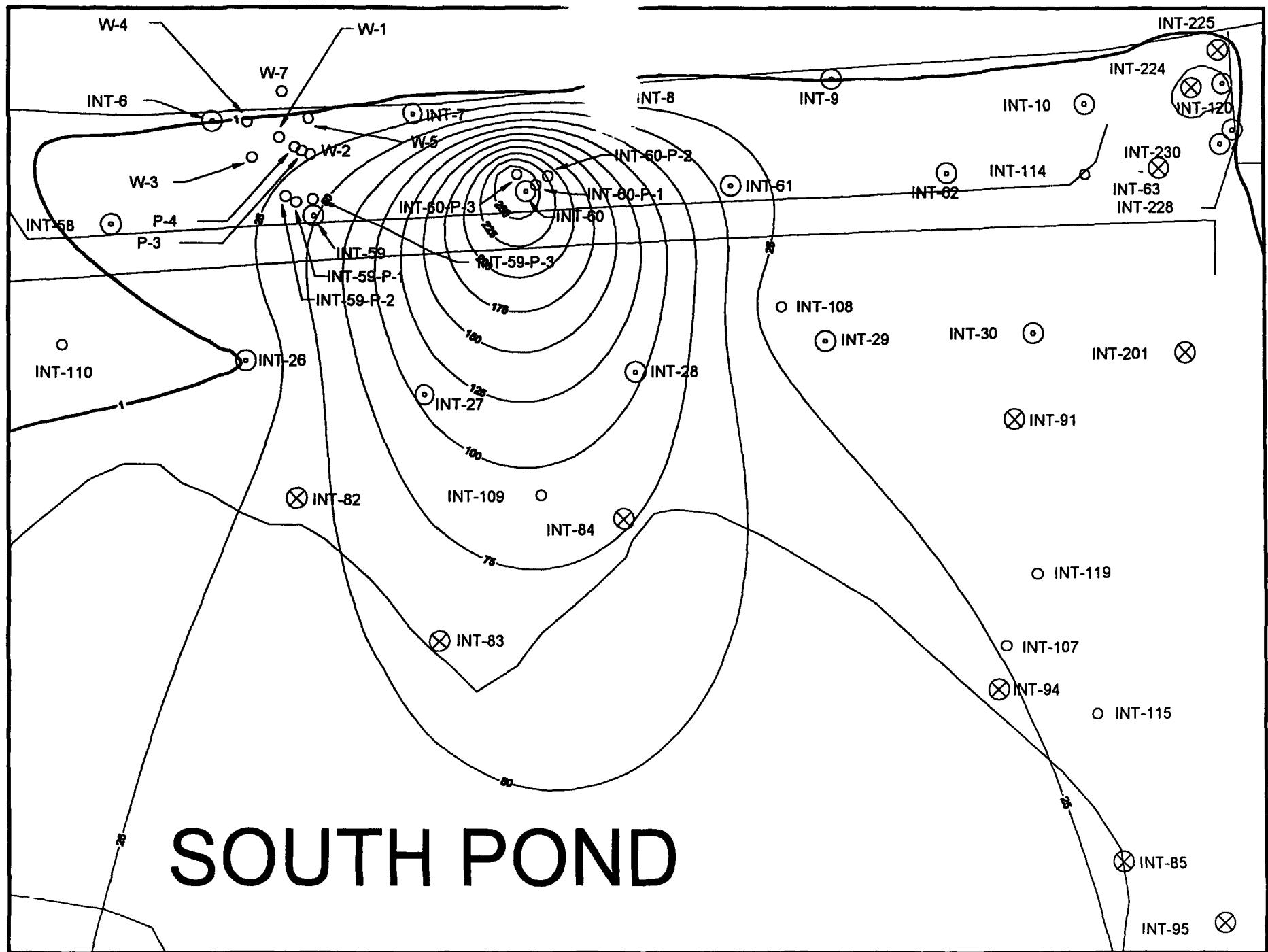


SOUTH POND

035027

INT CENTRAL A

DO+ (ppm) INITIAL

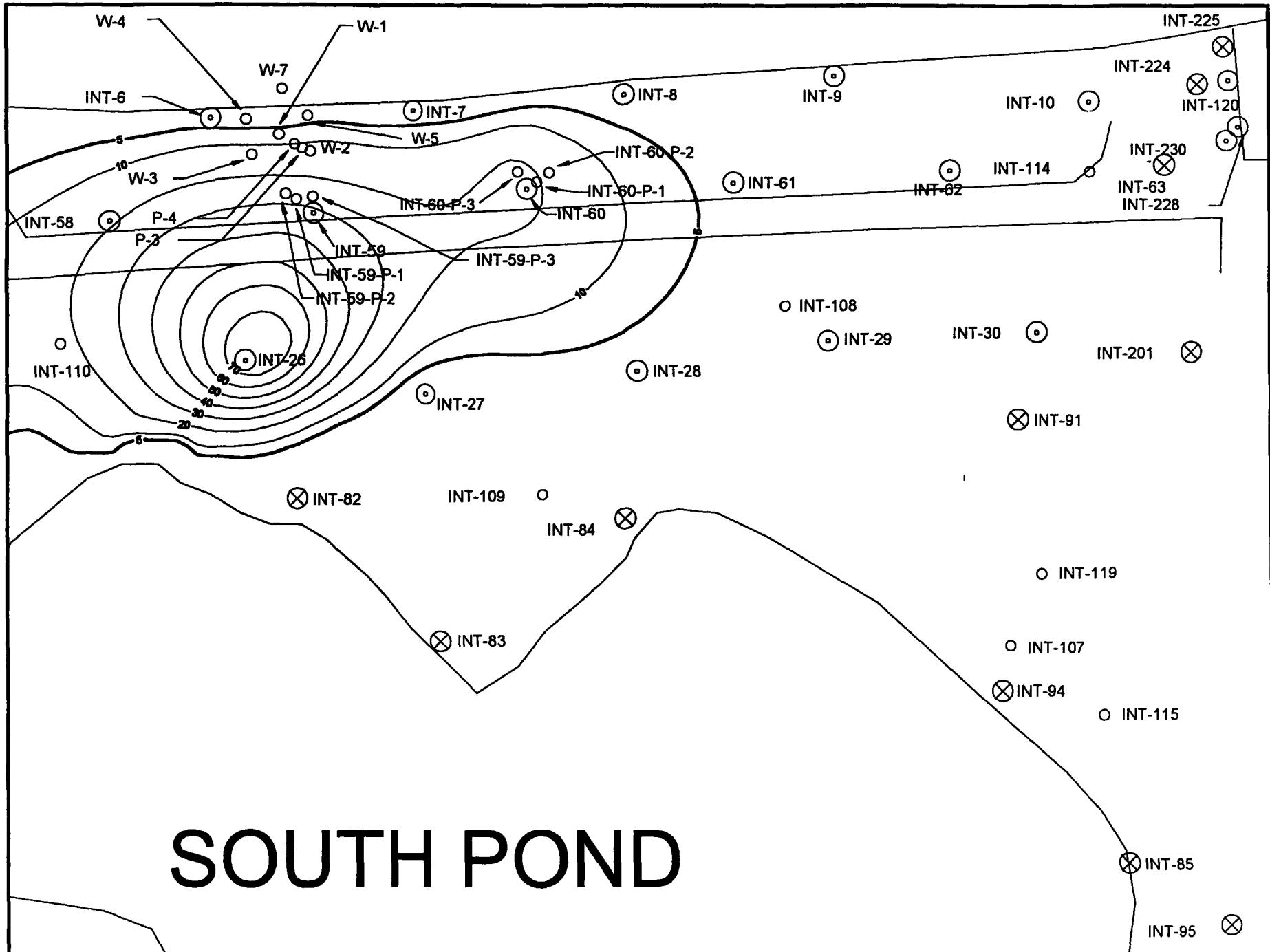


035028

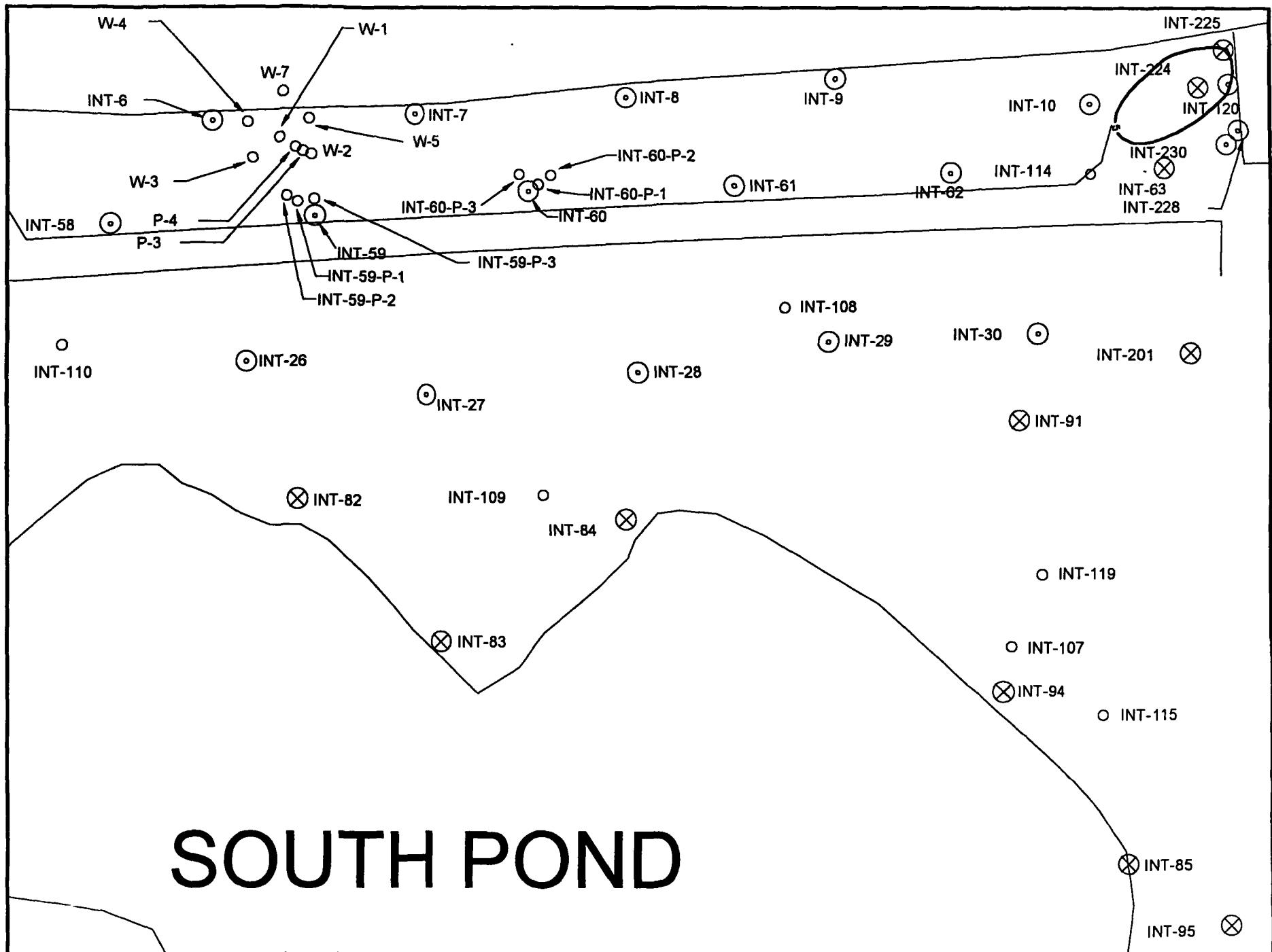
INT CENTRAL APRIL 1996 - 9.5 YEARS

035029

INT CENTRAL APRIL 1996 BENZENE (ppb) 9.5 YEARS



INT CENTRAL APRIL 1998: 1,2-DCA (ppb) 9.5 YEARS

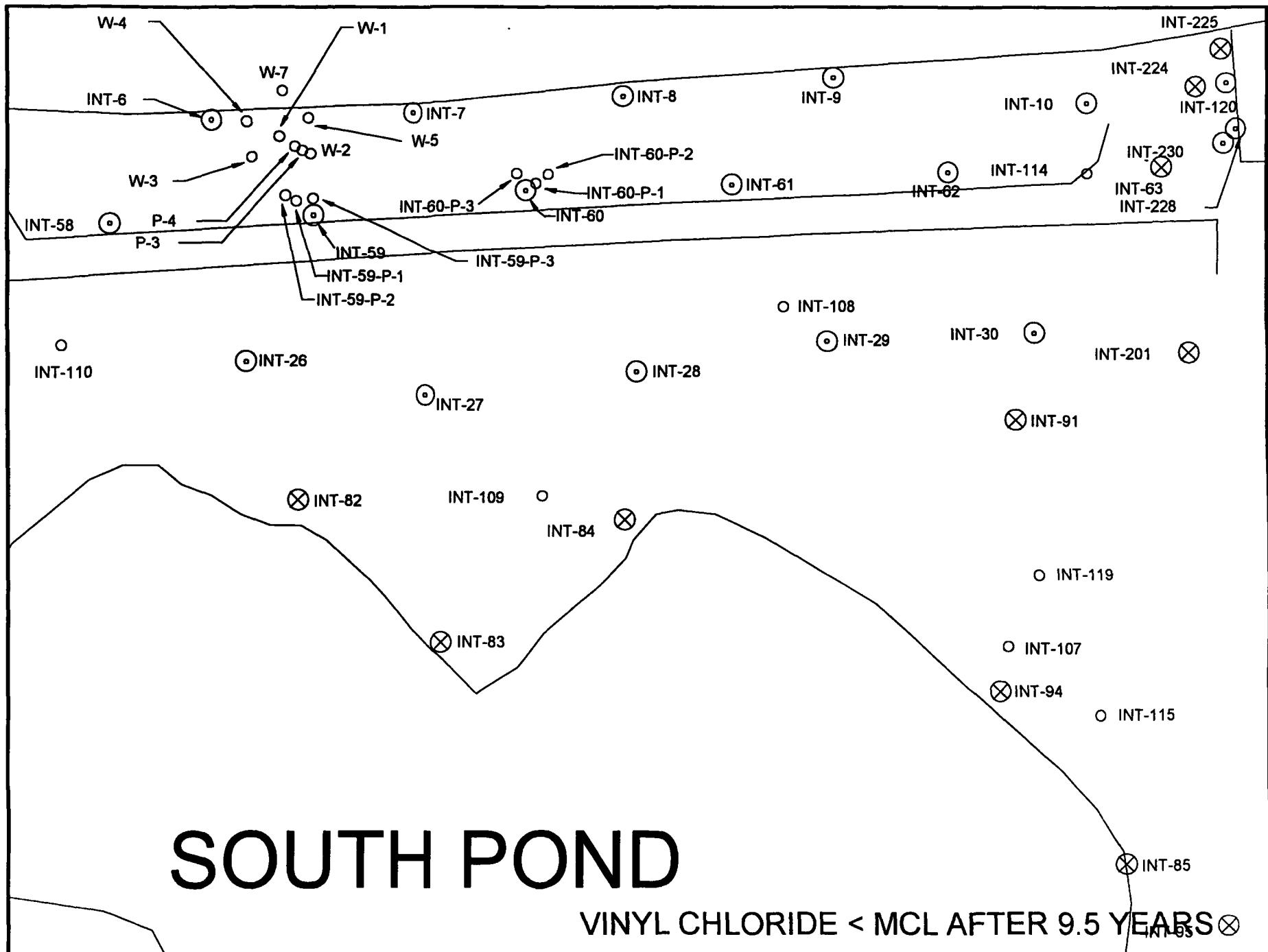


035030

SOUTH POND

035031

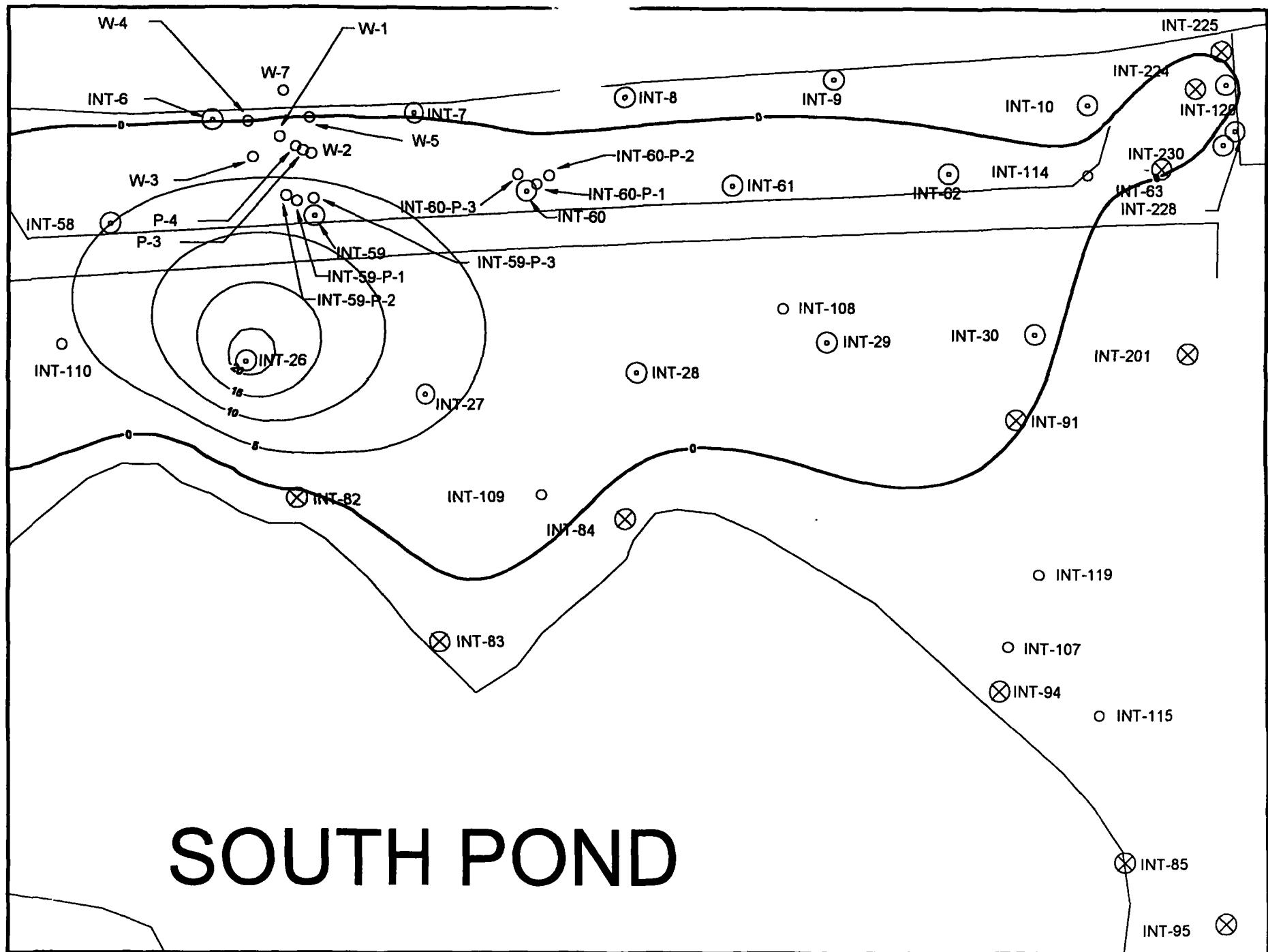
INT CENTRAL APRIL 1996: VINYL CHLORIDE (ppb) 9.5 YEARS



INT CENTRAL APRI

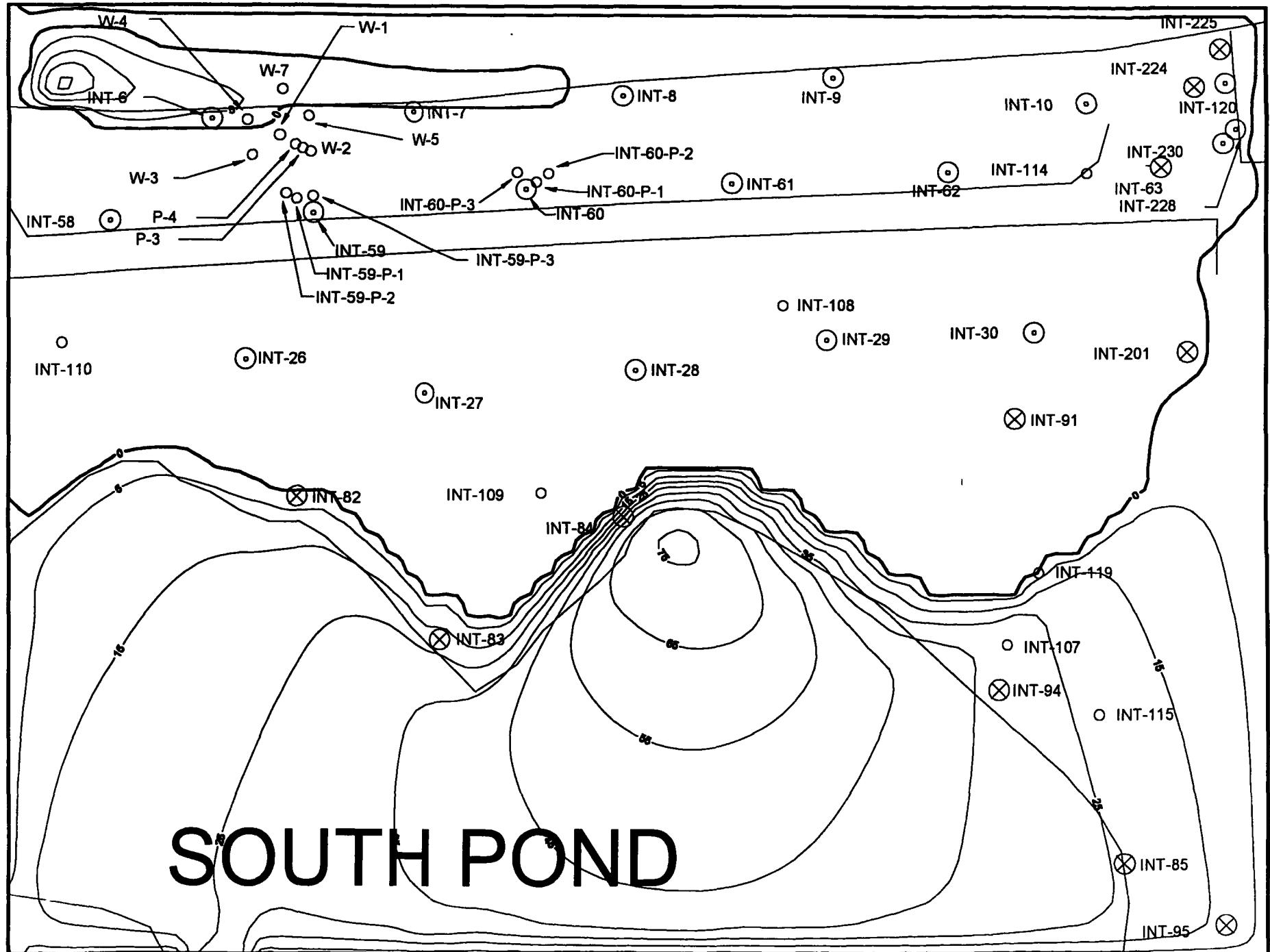
6: TOC (ppm) 9.5 YEARS

035032



INT CENTRAL APRIL 1996: DO+ (ppm) 9.5 YEARS

035033



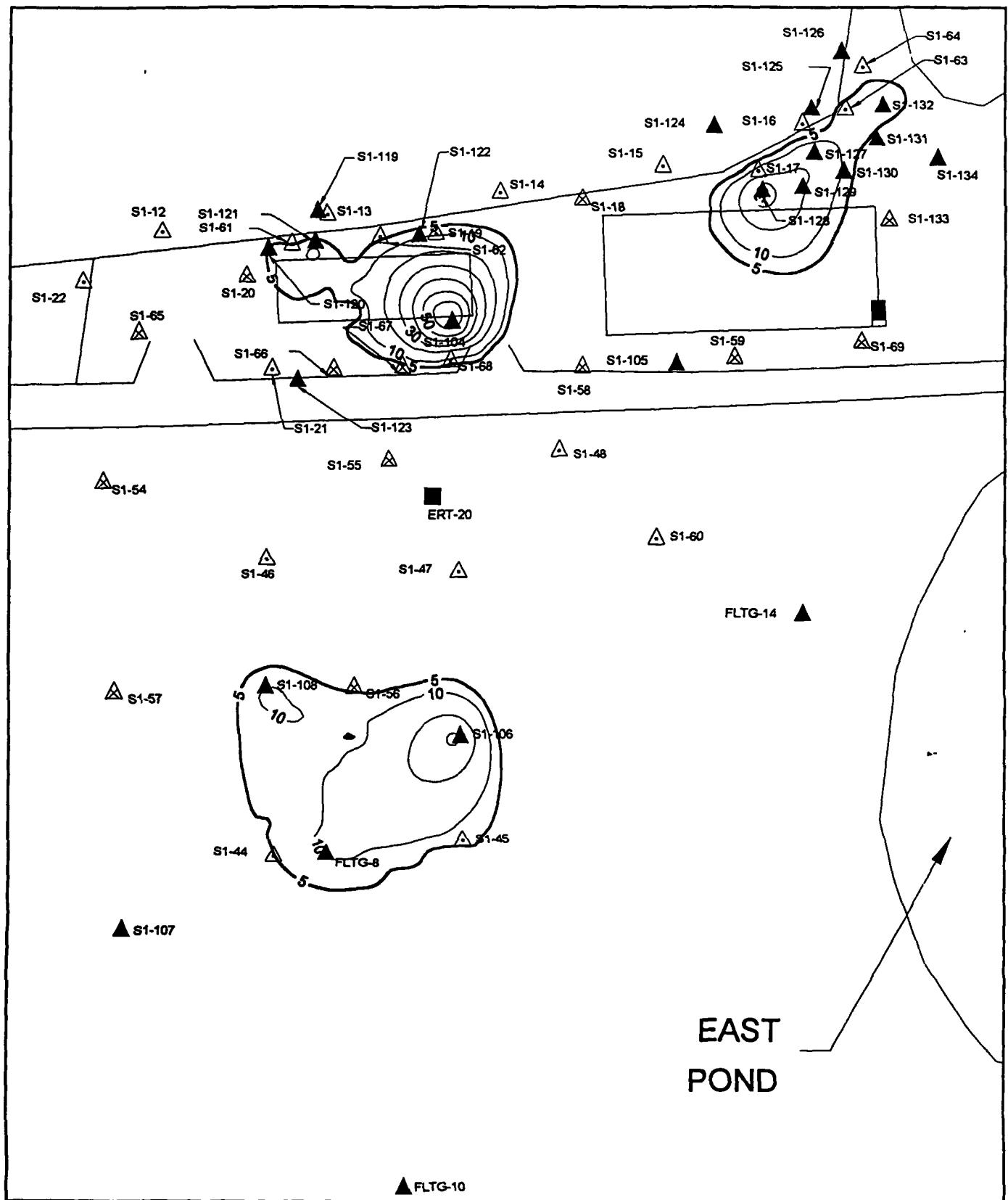
035034

S1 EAST DEMONSTRATION - INITIAL

035035

DEMONSTRATION RUN

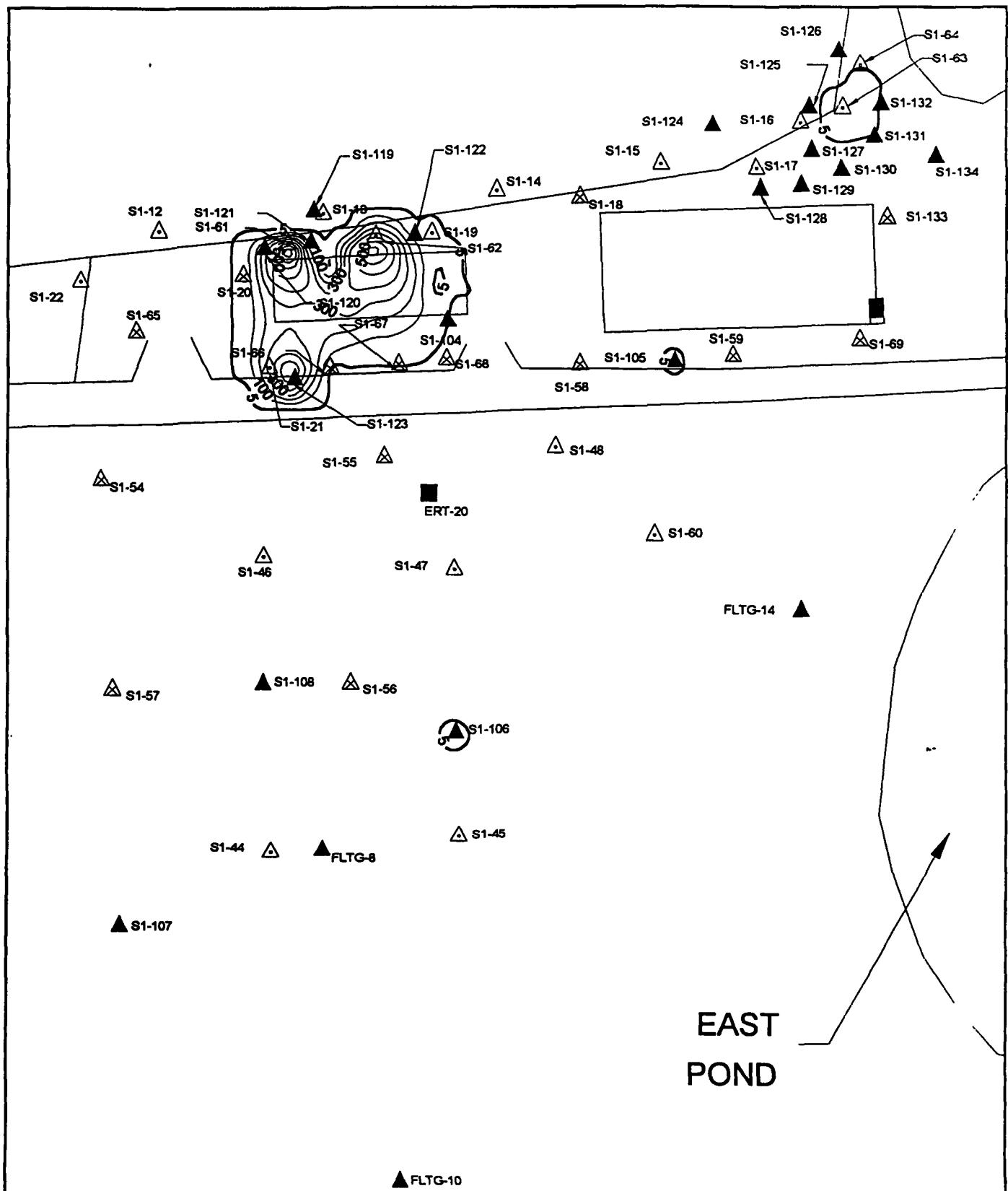
S1 EAST: BENZENE (ppb) INITIAL



035036

DEMONSTRATION RUN

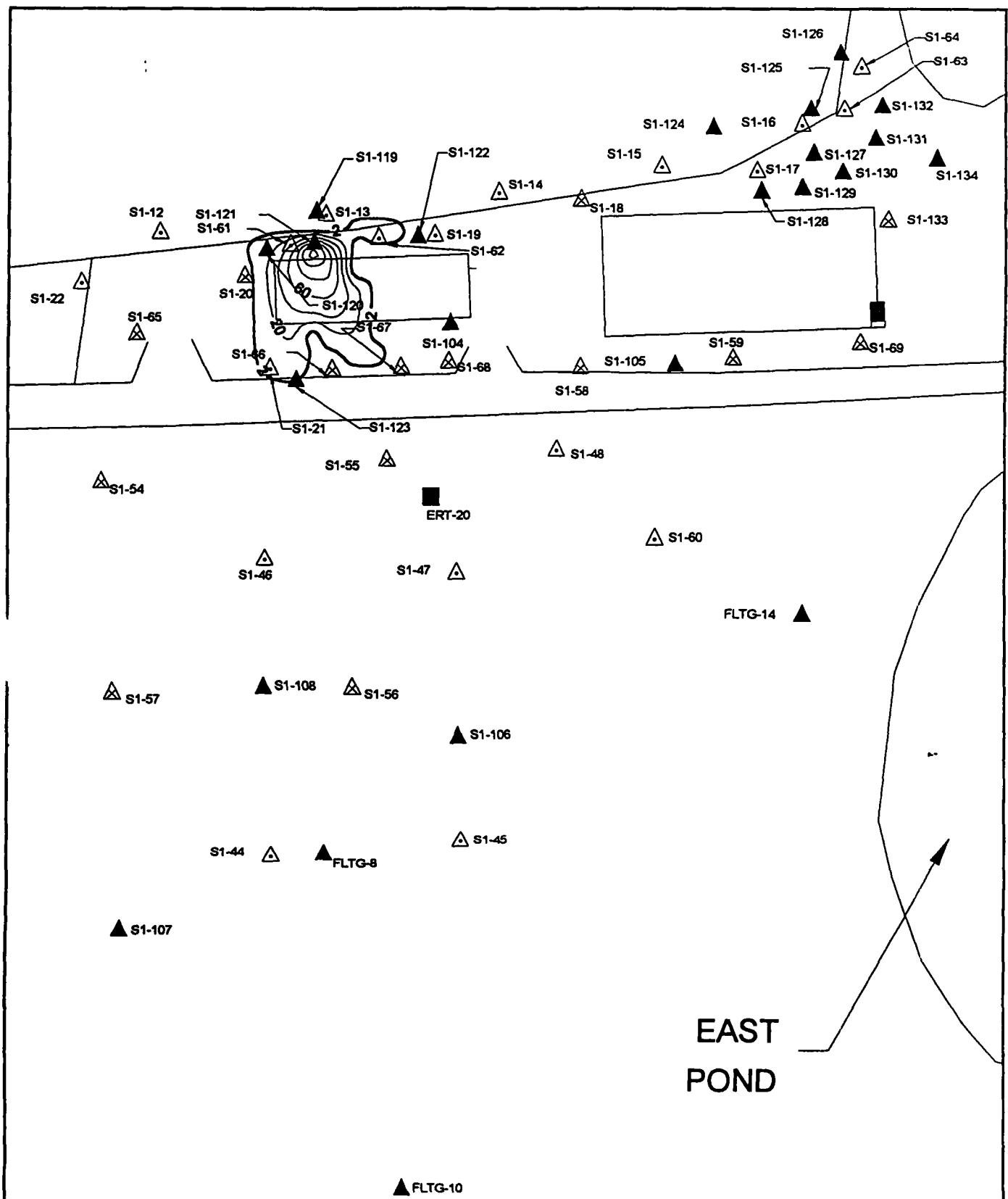
S1 EAST: 1,2-DCA (ppb) INITIAL



035037

DEMONSTRATION RUN

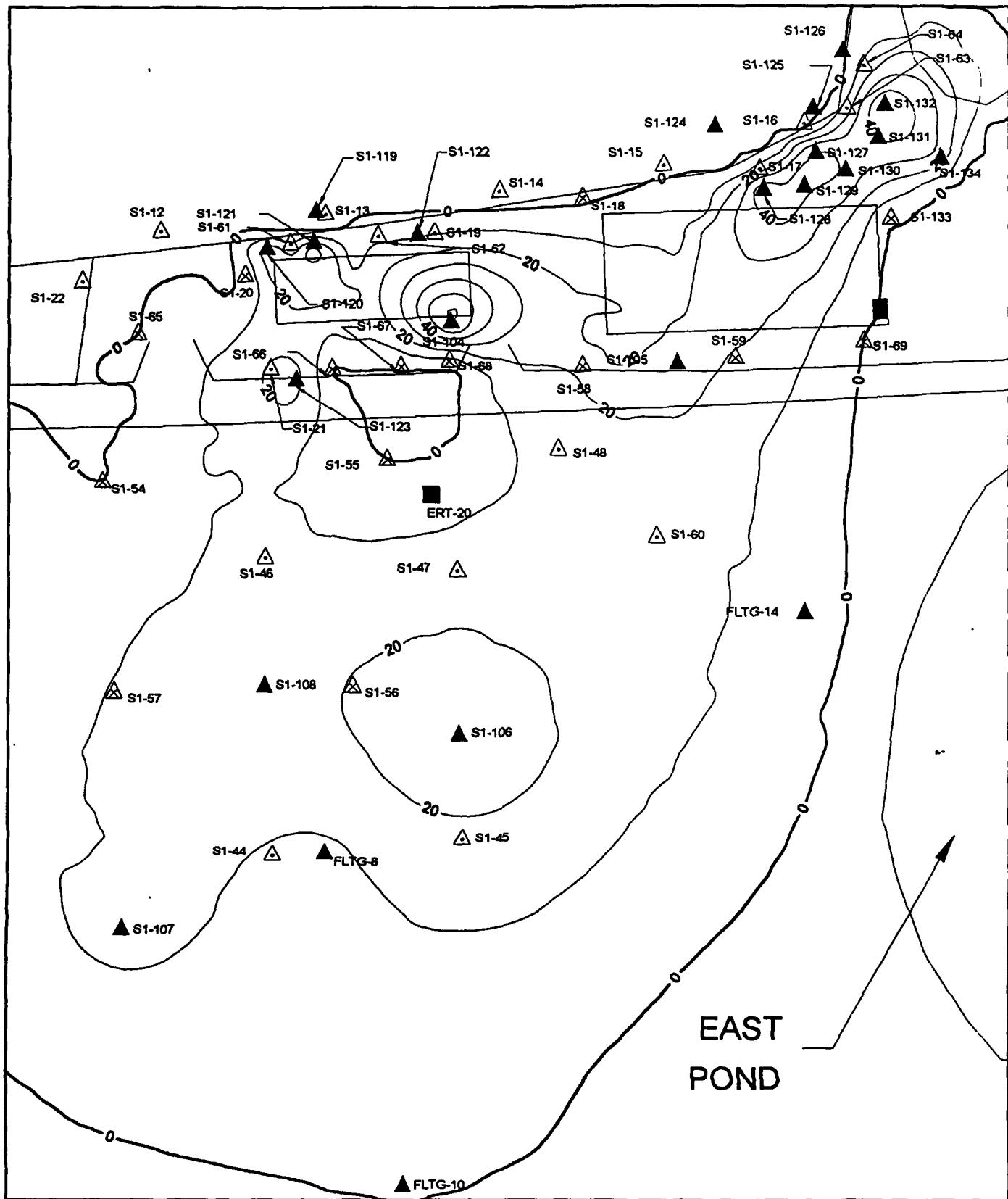
S1 EAST: VINYL CHLORIDE (ppb) INITIAL



U35038

DEMONSTRATION RUN

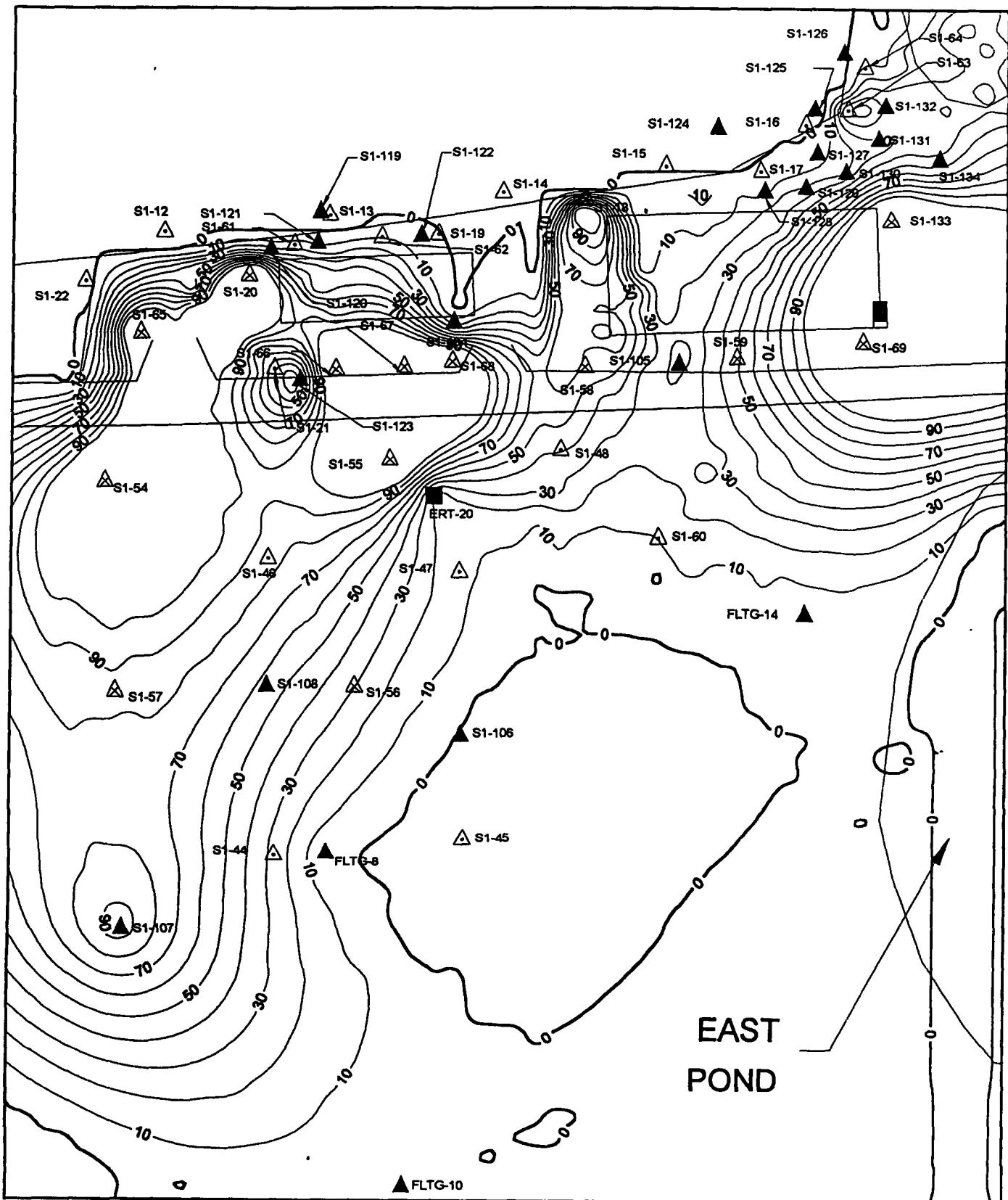
S1 EAST: TOC (ppm) INITIAL



035039

DEMONSTRATION RUN

S1 EAST: DO+ (ppm) INITIAL



035040

S1 EAST DEMONSTRATION - 6 MONTHS

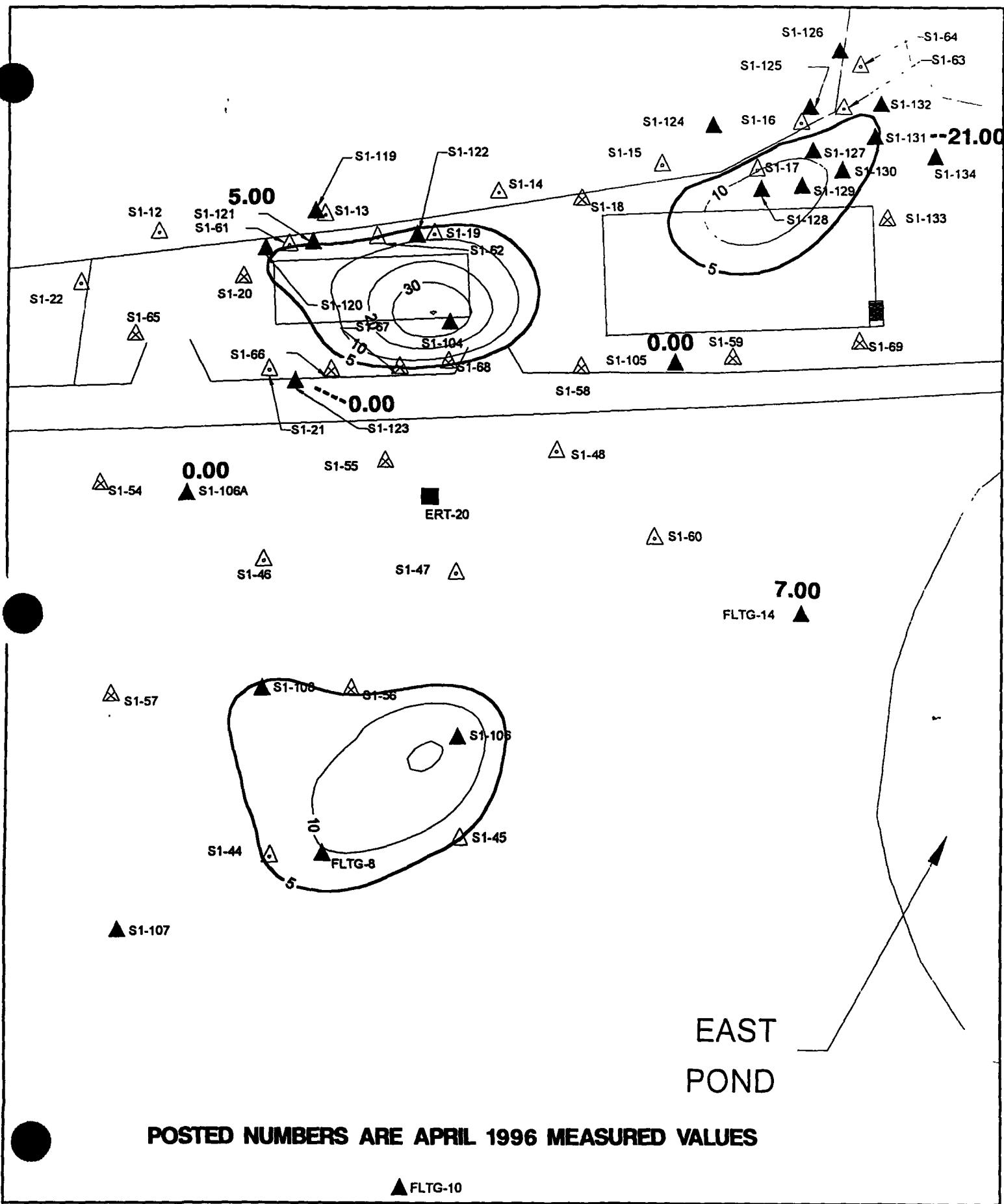
035041

**S1 EAST AREA: MEASURED VERSUS MODELED CONCENTRATIONS
DEMONSTRATION RUN - 6 MONTHS
APRIL 1996**

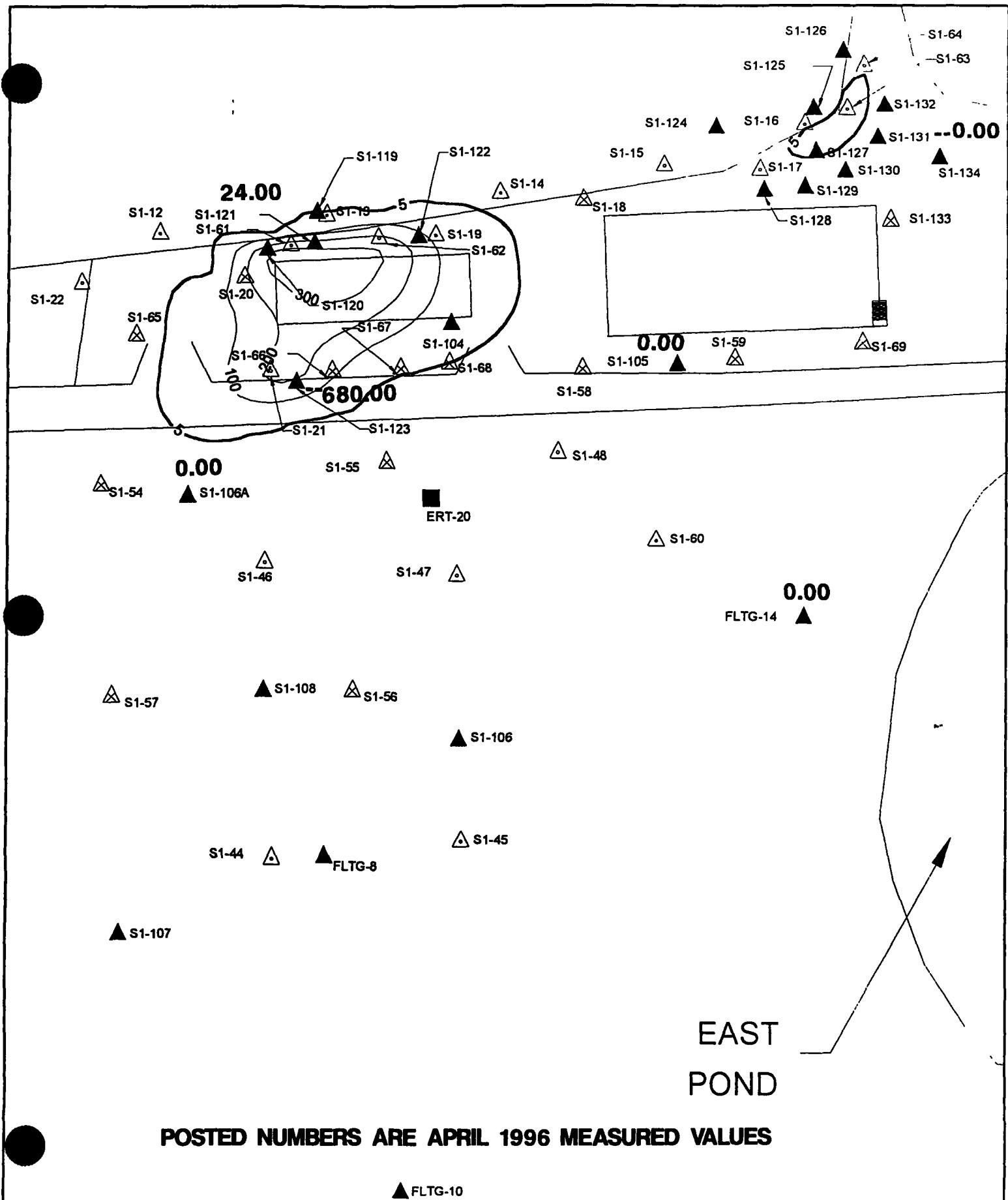
Well	Benzene (ppb)		1,2-DCA (ppb)		Vinyl Chloride (ppb)		TOC 50% (ppm)		DO+NO ₃ (ppm)	
	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled	Measured	Modeled
S1-121	5.00	3.45	24.00	198.91	66.00	21.99	7.30	5.22	1.70	0.02
S1-123	0.00	1.38	680.00	195.95	0.00	1.61	2.40	11.21	2.70	0.00
S1-106A	0.00	0.04	0.00	0.00	0.00	0.00	0.00	3.50	54.10	0.00
FLTG-14	7.00	0.00	0.00	0.00	0.00	0.00	3.00	4.24	1.70	0.00
S1-131	21.00	4.50	0.00	1.38	0.00	0.00	10.40	17.22	766.40	0.00
S1-105	0.00	0.02	0.00	1.33	0.00	0.00	2.10	11.92	3.25	0.01

035042

S1 EAST DEMONSTRATION: BENZENE (ppb) 6 MONTHS

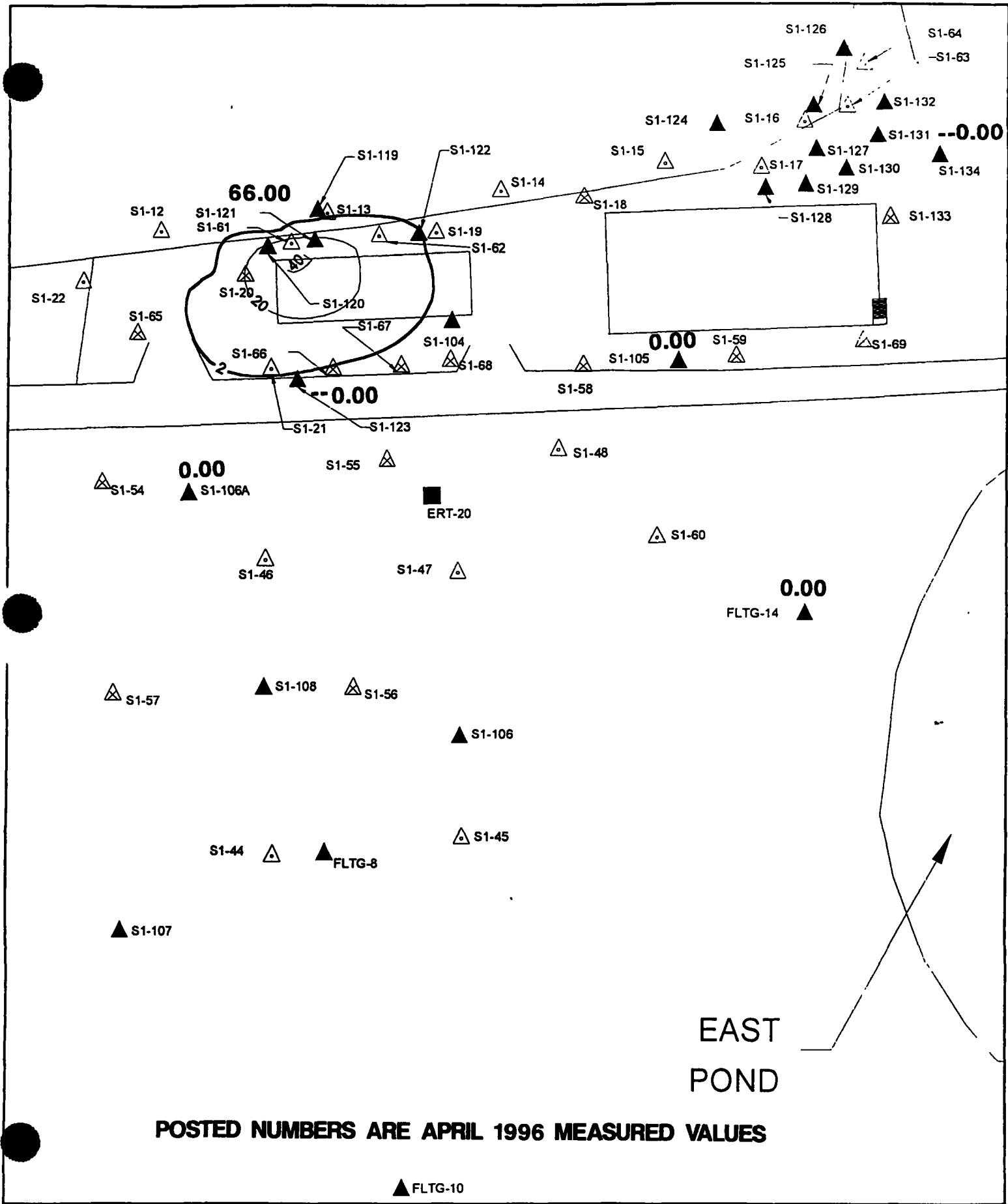


035043 EAST DEMONSTRATION: 1,2-DCA (ppb) 6 MONTHS

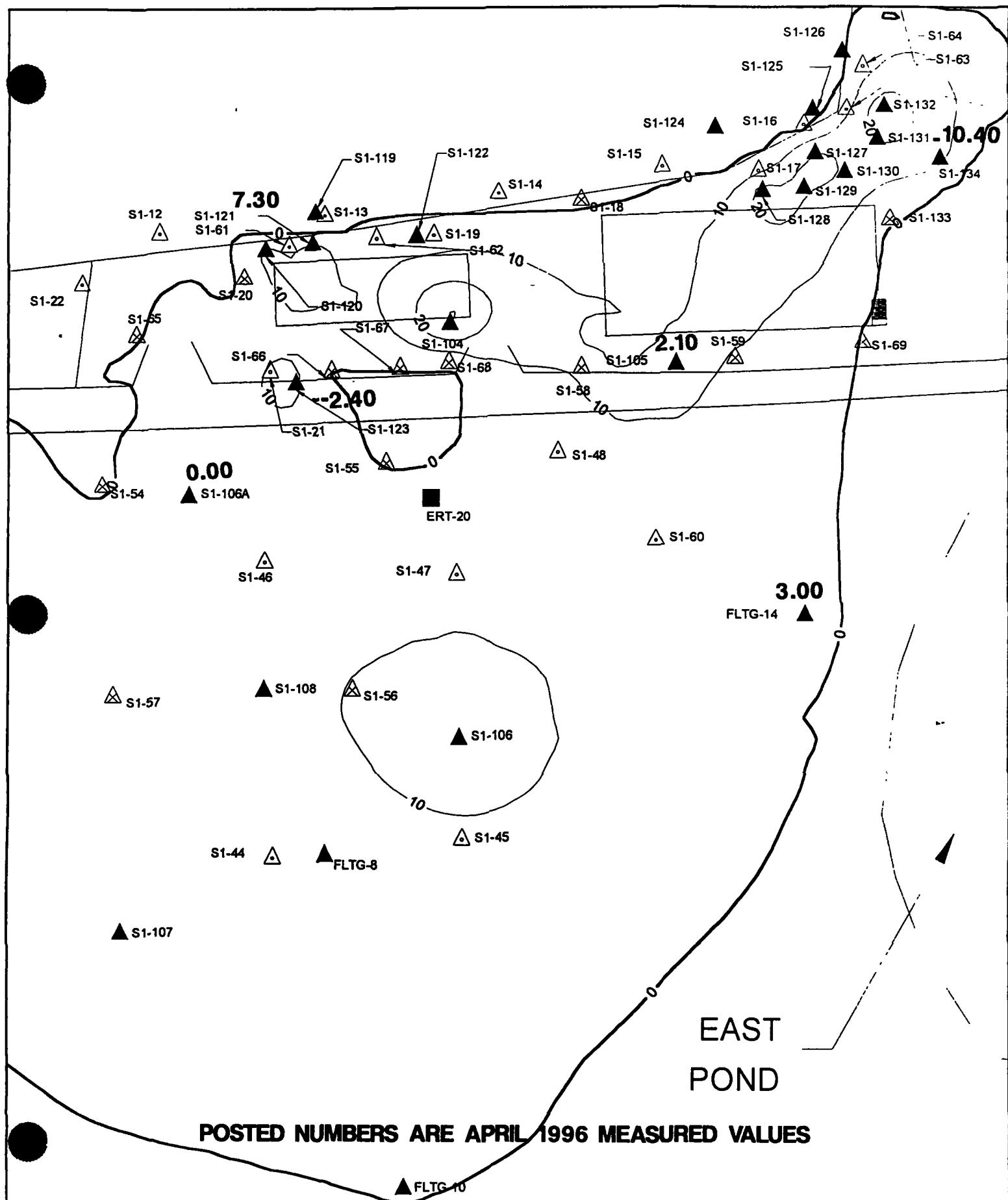


035044

SEAST DEMONSTRATION: VINYL CHLORIDE (ppb) 6 MONTHS

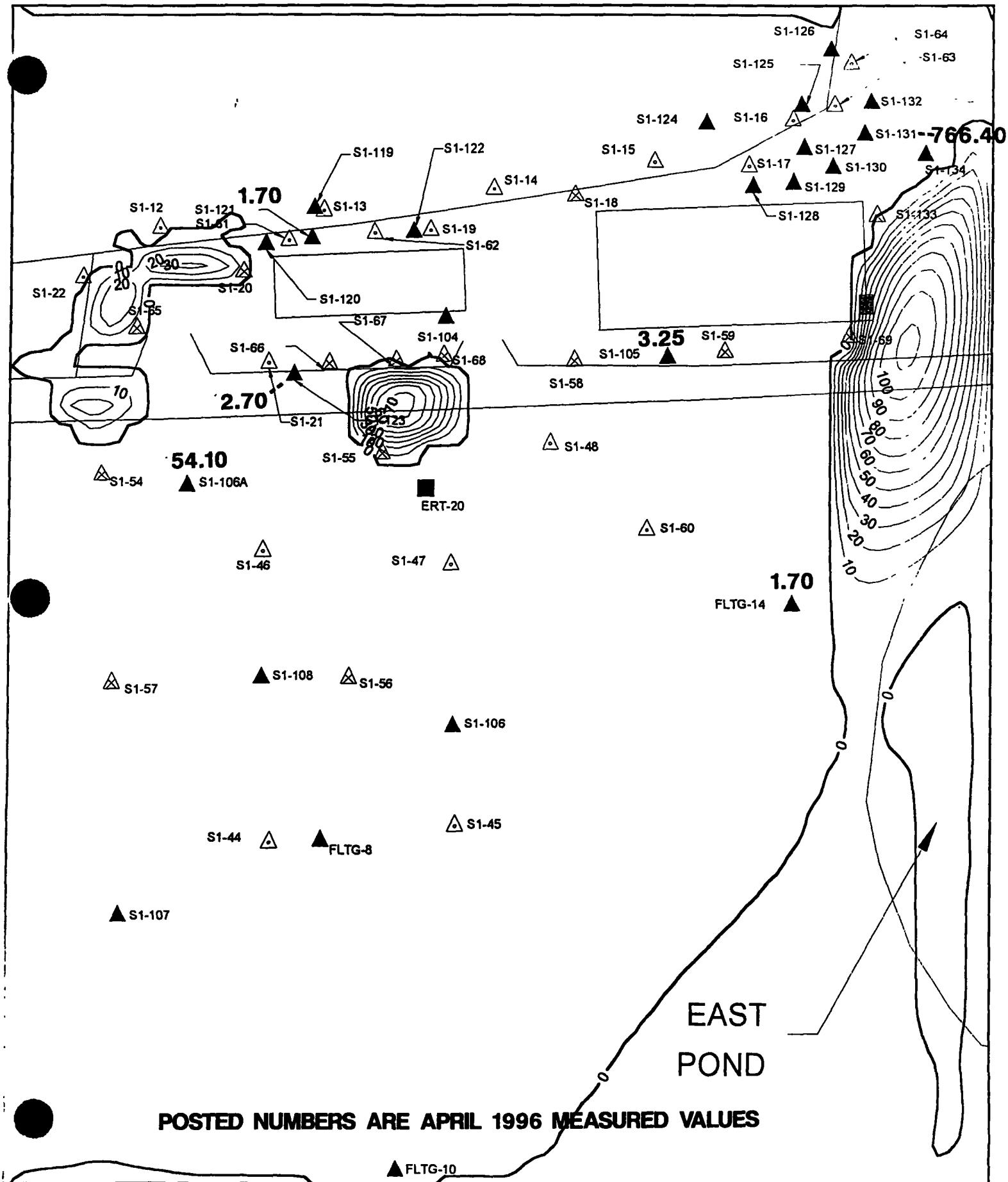


035045 S1 EAST DEMONSTRATION: TOC (ppm) 6 MONTHS



035046

S1 EAST DEMONSTRATION: DO+ (ppm) 6 MONTHS

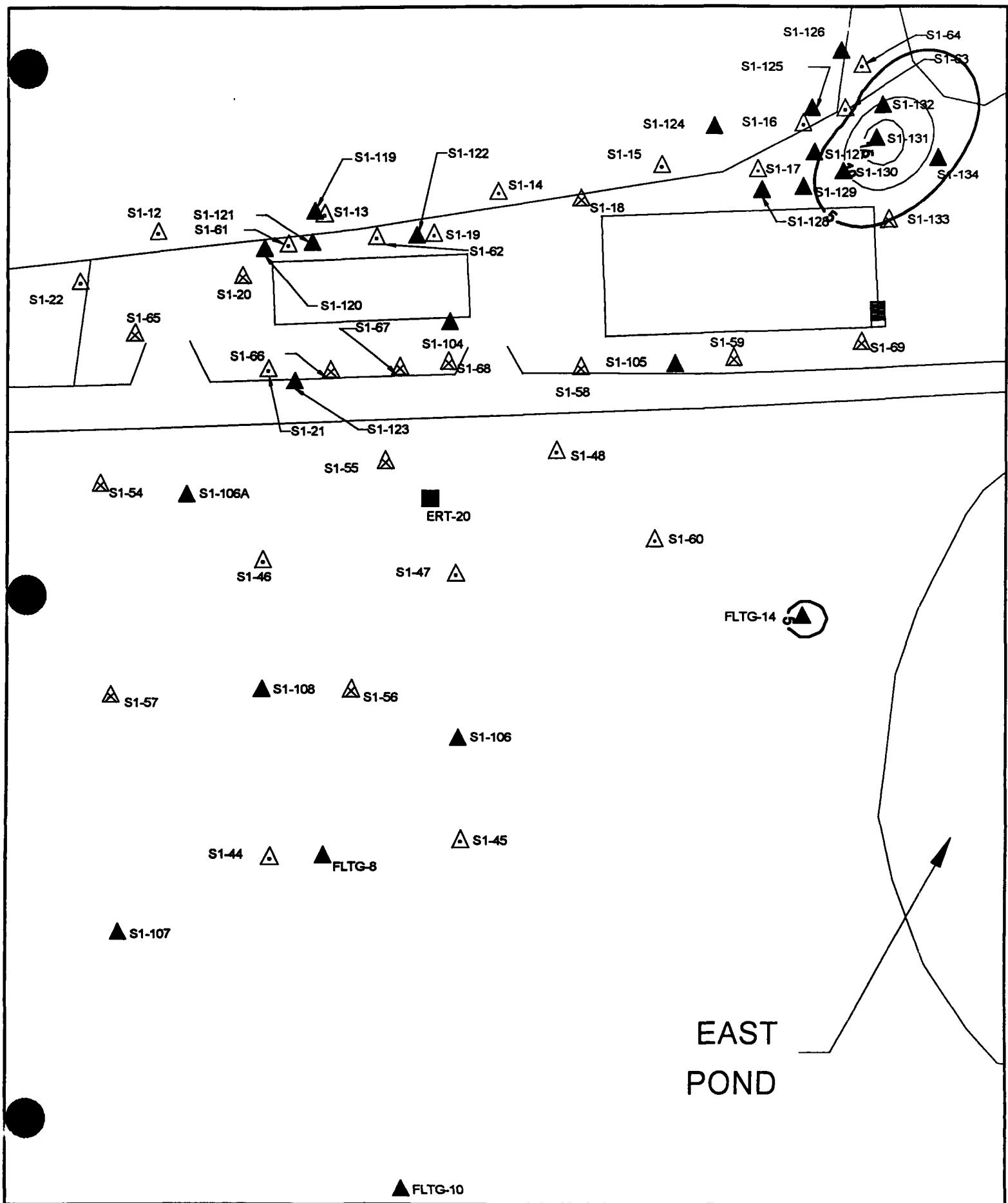


035047

S1 EAST APRIL 1996 - INITIAL

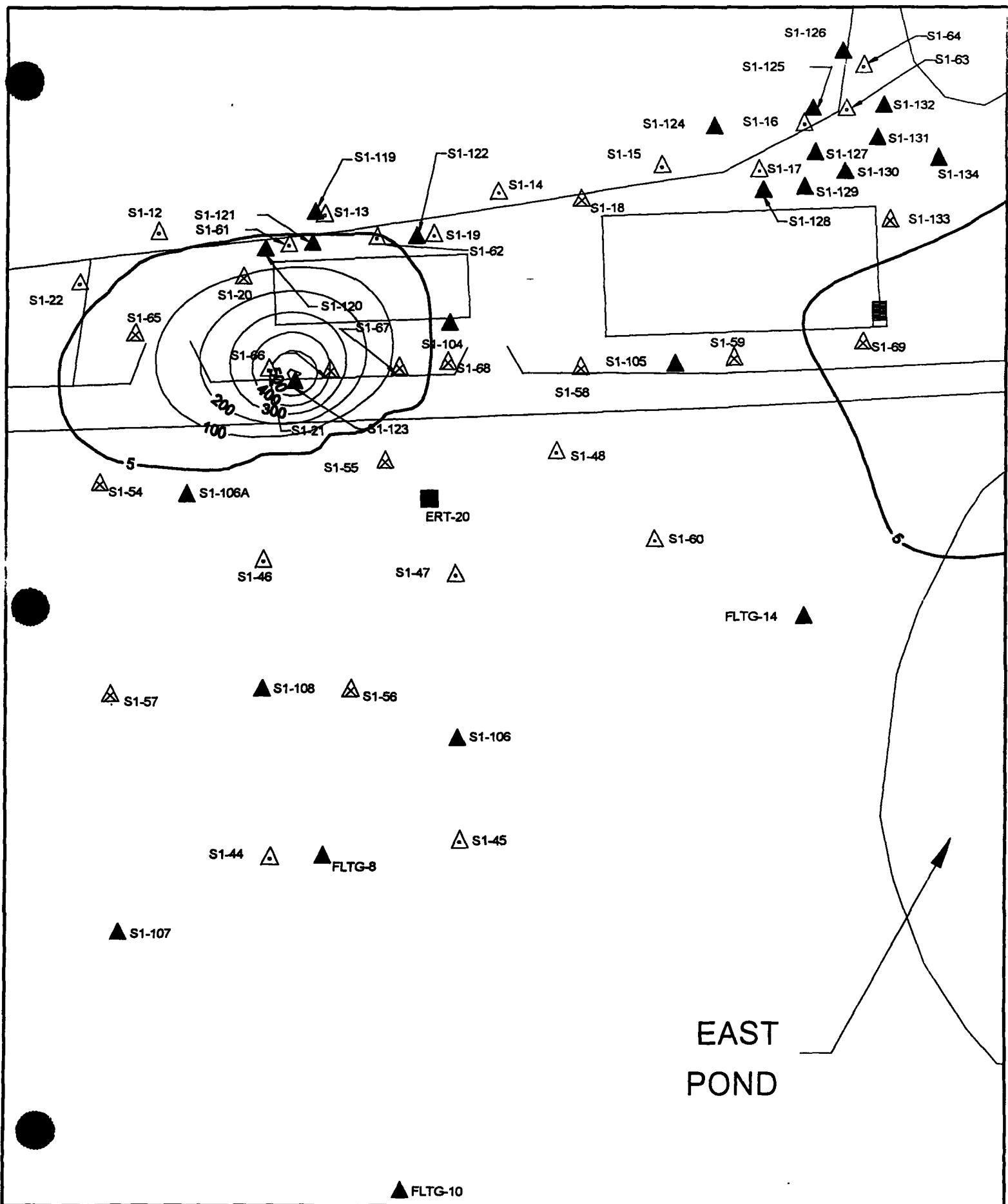
035048

S1 EAST APRIL 1996: BENZENE (ppb) INITIAL



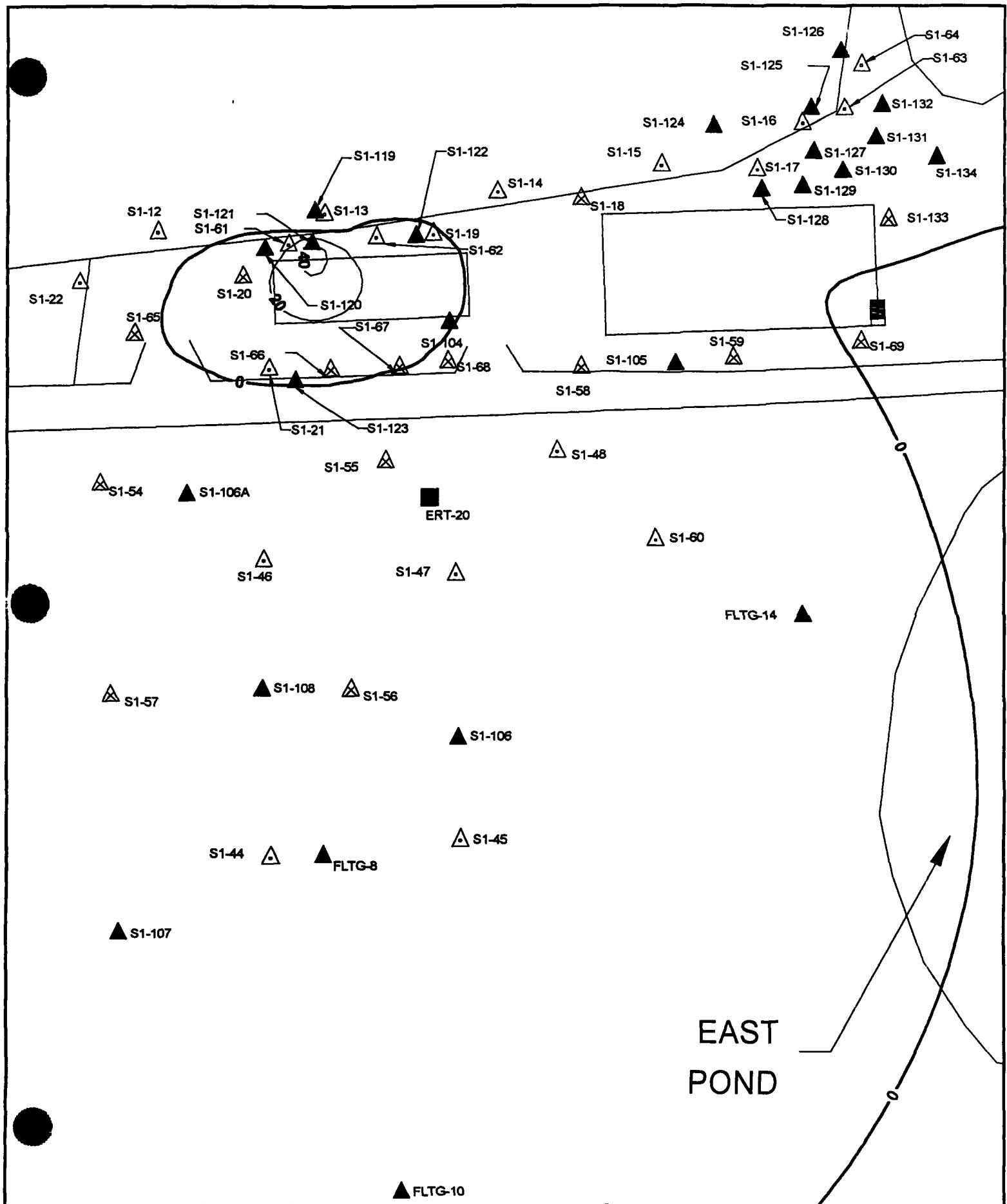
035049

S1 EAST APRIL 1996: 1,2-DCA (ppb) INITIAL



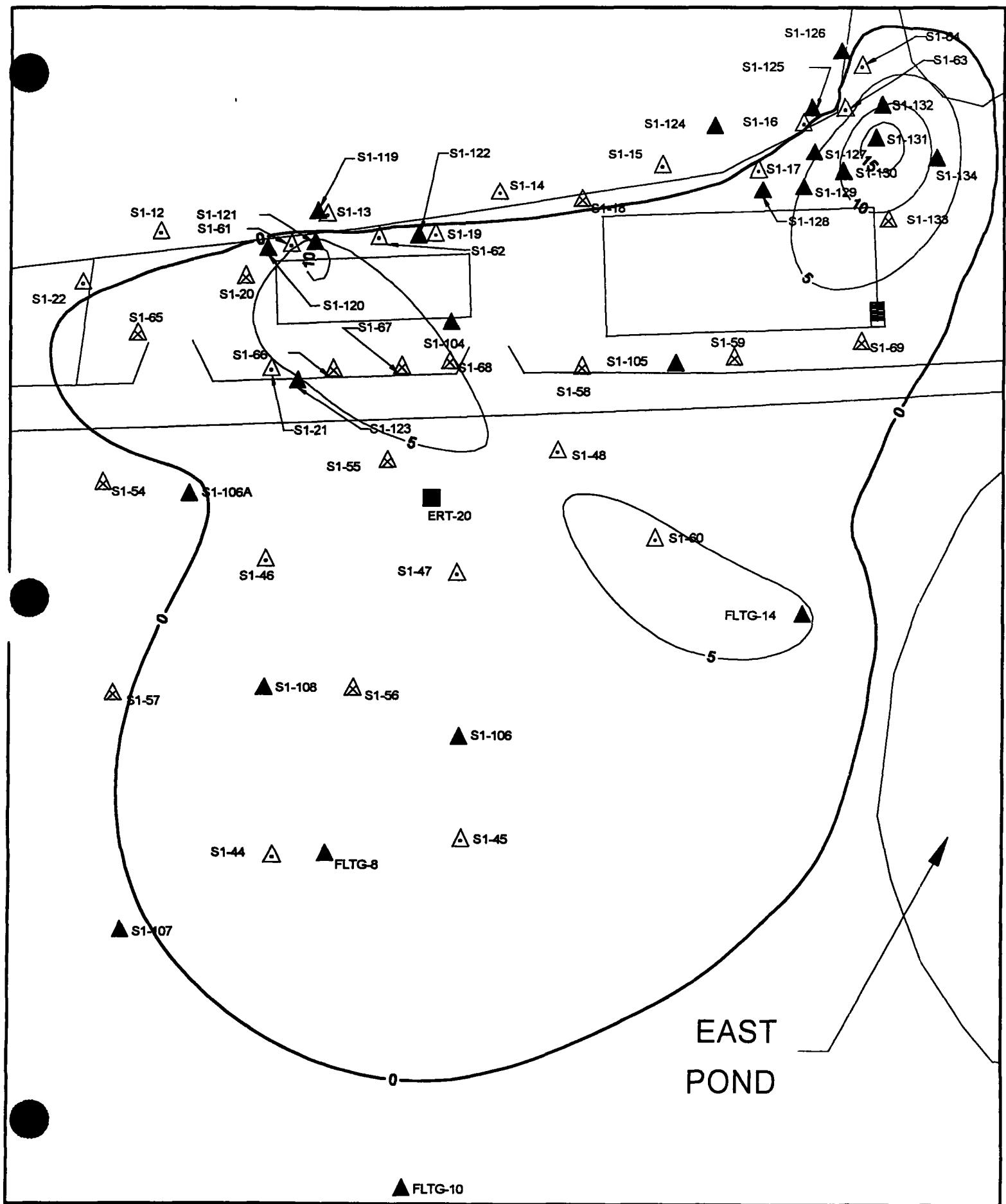
035050

S1 EAST APRIL 1996: VINYL CHLORIDE (ppb) INITIAL



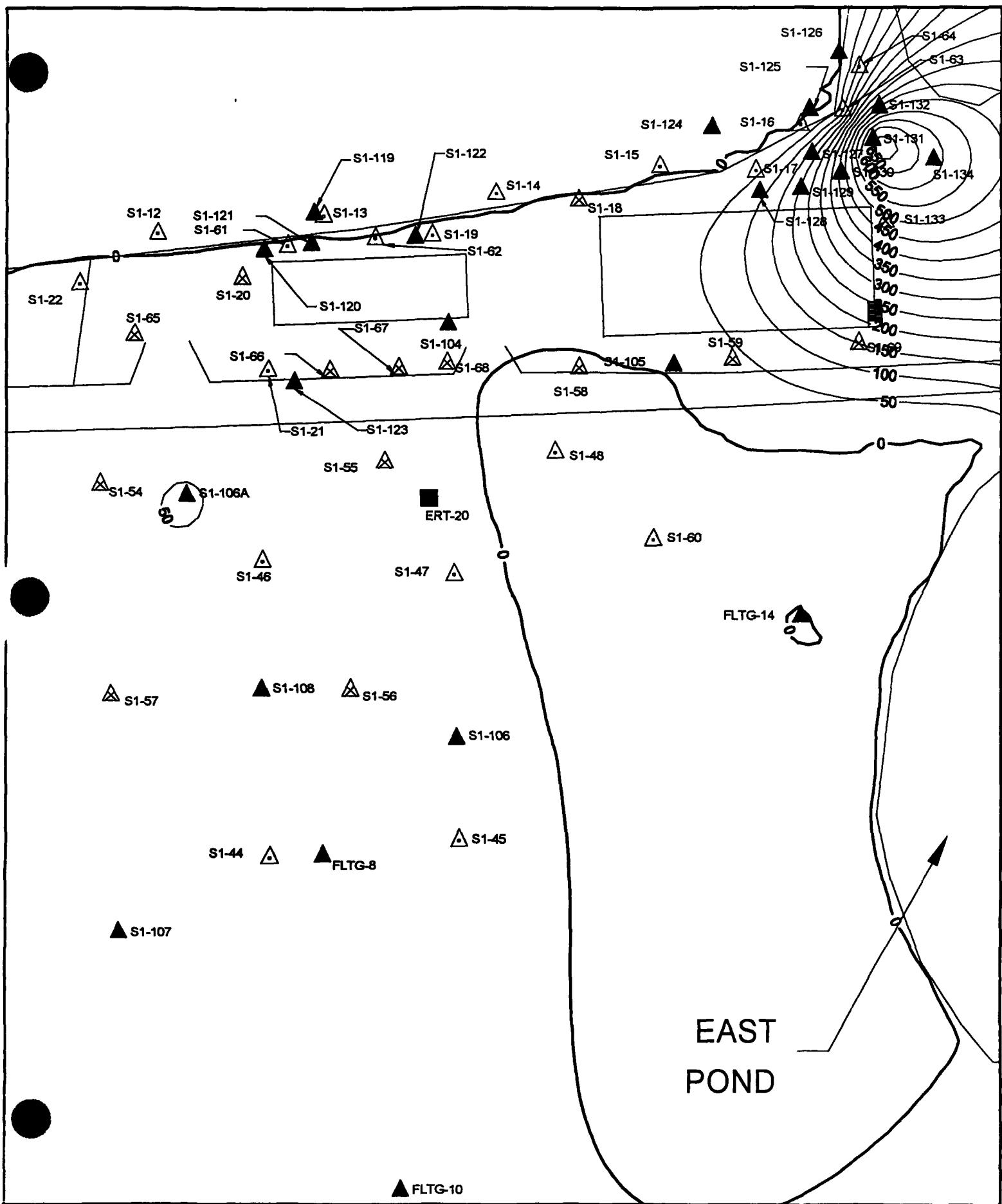
035051

S1 EAST APRIL 1996: TOC (ppm) INITIAL



035052

S1 EAST APRIL 1996: DO+ (ppm) INITIAL

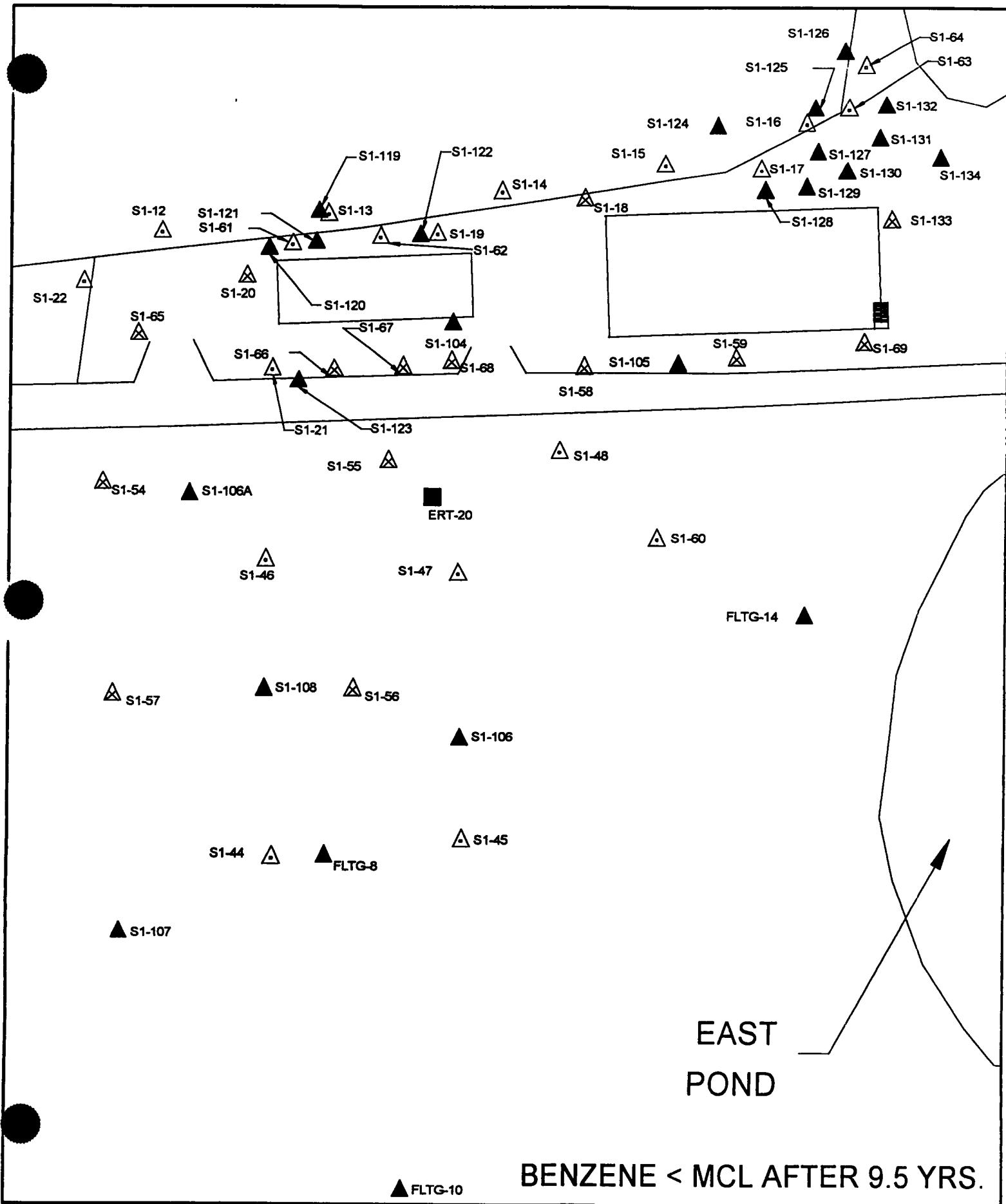


035053

S1 EAST APRIL 1996 - 9.5 YEARS

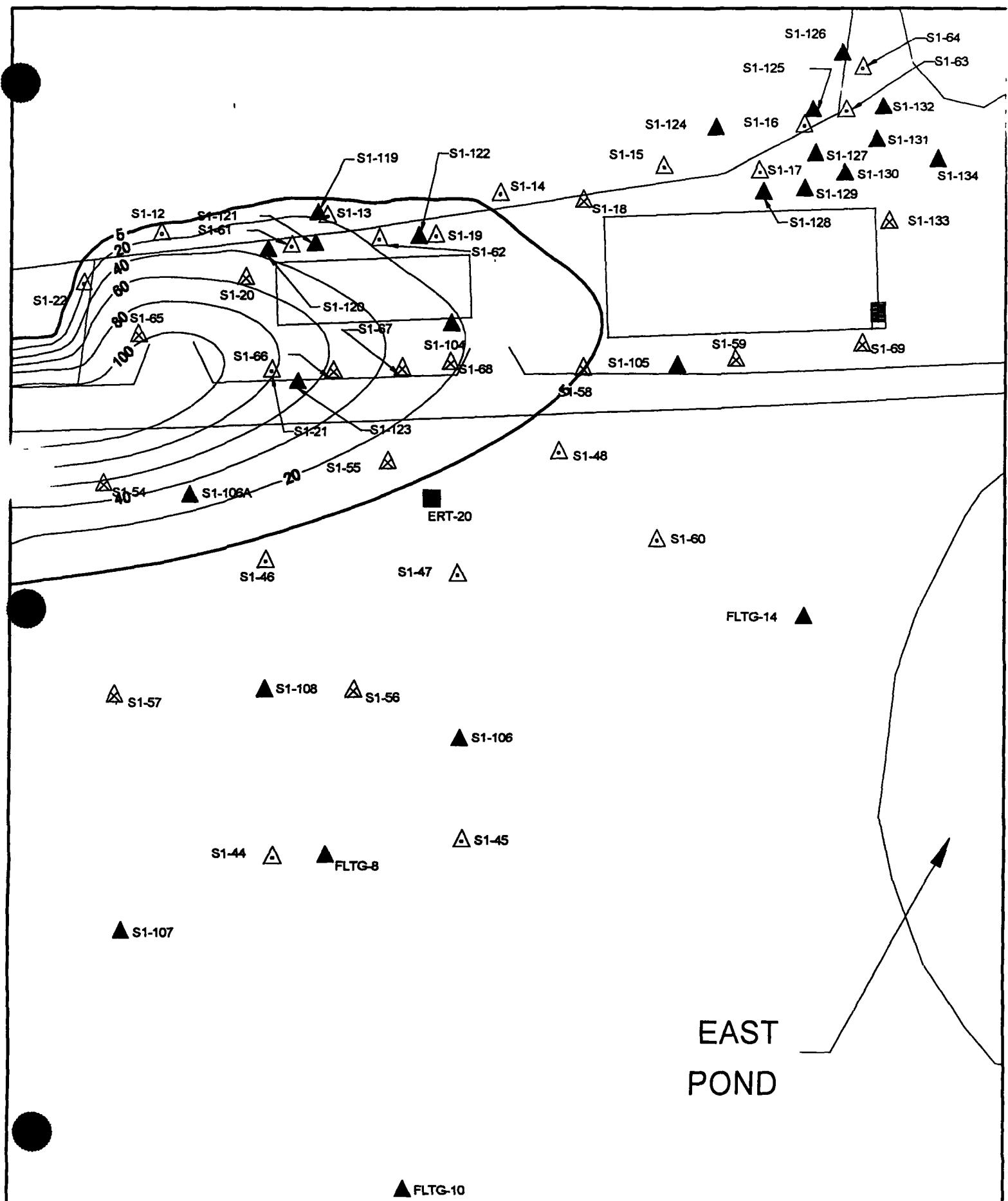
035054

S1 EAST APRIL 1996: BENZENE (ppb) 9.5 YEARS



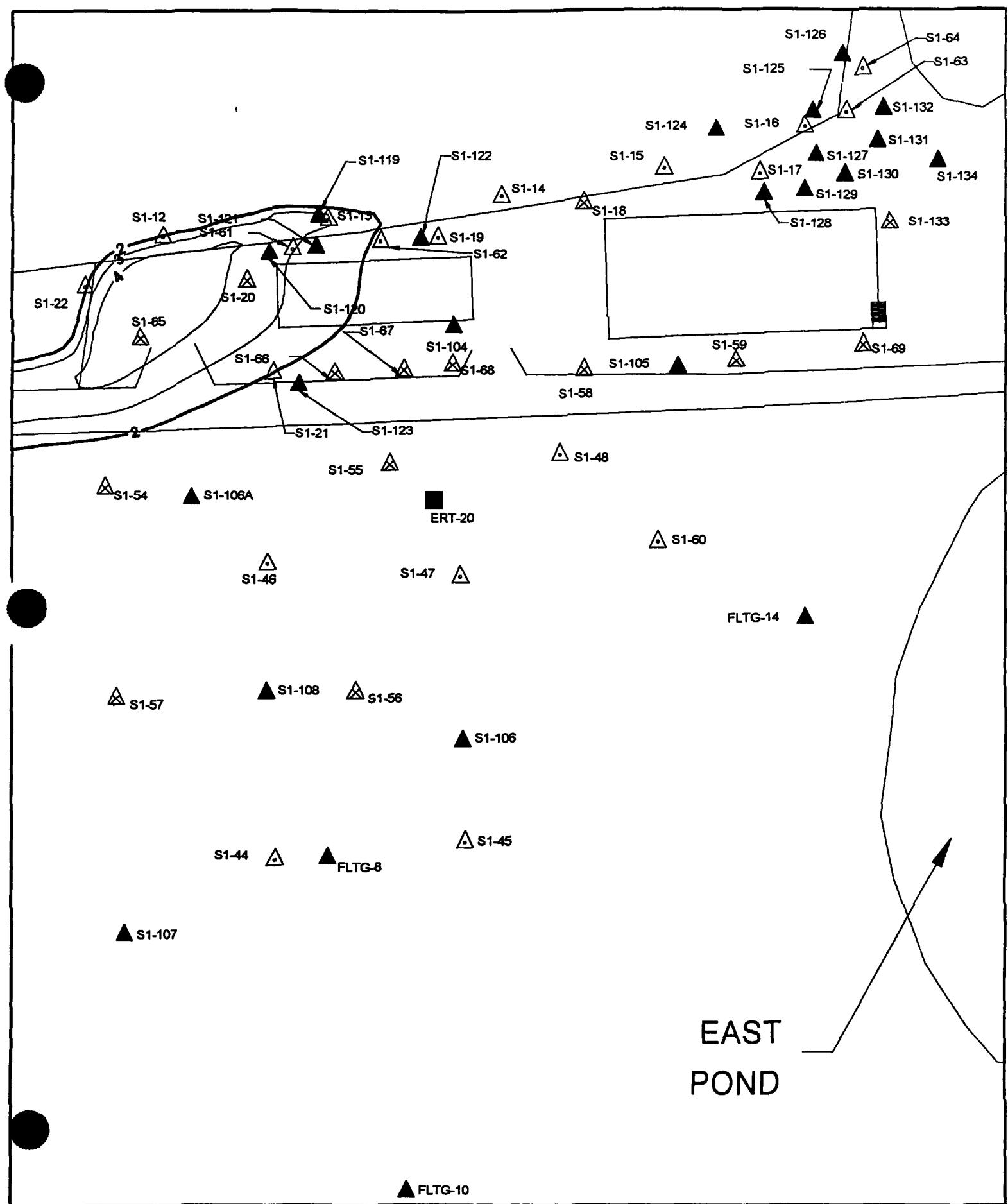
035055

S1 EAST APRIL 1996: 1,2-DCA (ppb) 9.5 YEARS



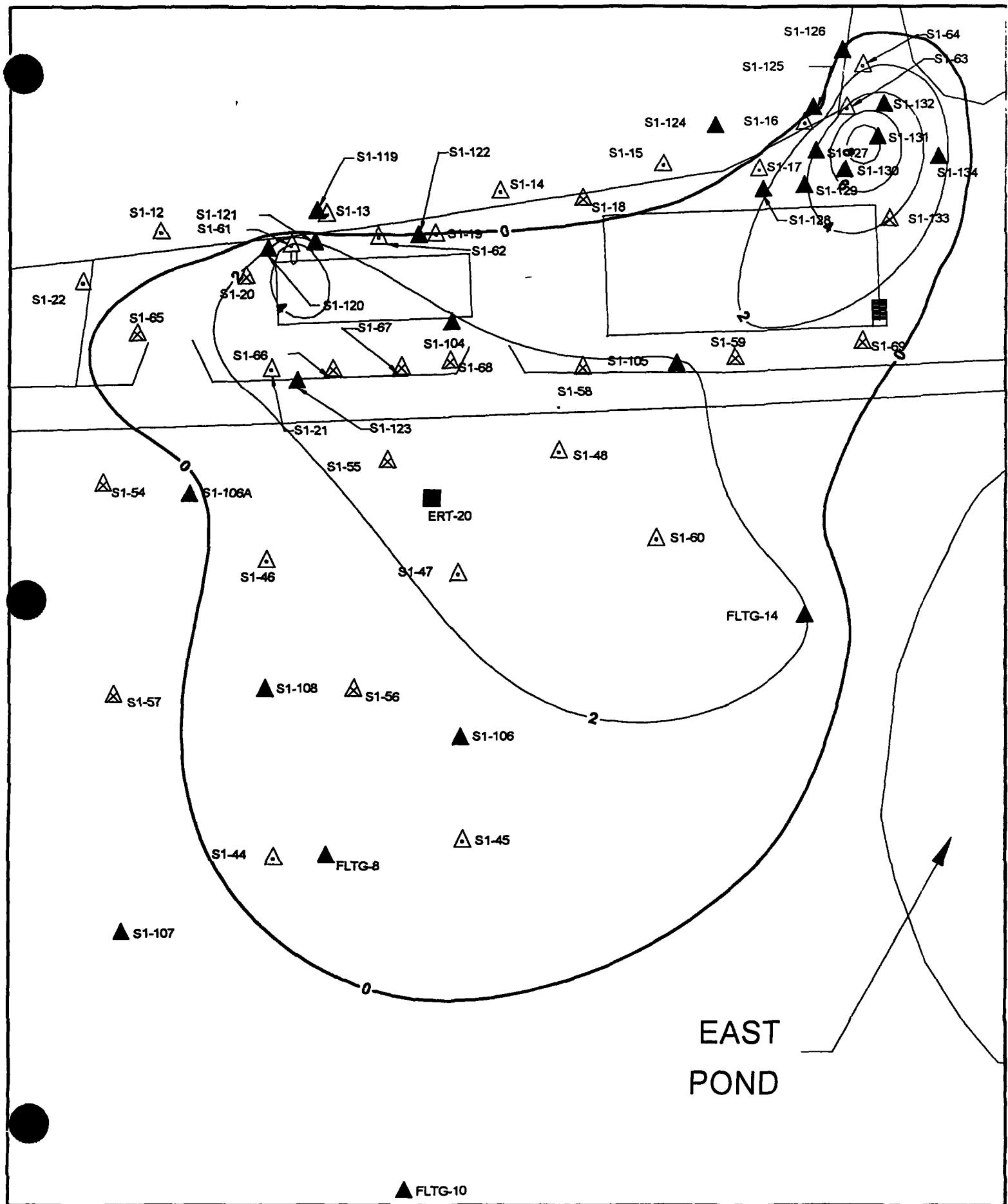
035056

S1 EAST APRIL 1996: VINYL CHLORIDE (ppb) 9.5 YEARS



035057

S1 EAST APRIL 1996: TOC (ppm) 9.5 YEARS



035058

S1 EAST APRIL 1996: DO+ (ppm) 9.5 YEARS

